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REPORT.

To the Most Honourable the Marquis of Salisbury, Secretary of State for India.

MY LORD MARQUIS,

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India Office, 15th June 1875.

I HAVE the honour to lay before your Lordship my usual Annual Report, describing the progress which has been going on during the year 1874 in the development of the railway system of India, both as regards its expansion and

- 2. An addition of 558 miles was made to the 5,715 which were open at the General beginning of the year, extending the length of railway now open in India to 6,273 progress. miles. Of these 727 are double and 5,546 single; 5,686 are constructed on the 5'6" gauge and 587 on the metre gauge.
- 3. The works completed during the year consist principally of 200 miles of the Rajpootana State Railway, which is being constructed on the metre gauge; the Nizam's line, 128 miles in length, from Goolburga, on the Great Indian Peninsula Railway, to Hyderabad and Secunderabad; 57 miles of Holkar's Railway from Indore to Khundwa, and 84 miles of the Oude and Rohilkund system, which is now open for 540 miles.
- 4. The works on this last-mentioned line comprise two important bridges, one over the Ganges at Rajghat, on the Allyghur branch, and the other over the Ramgung River, four miles west of Bareilly. The bridge over the Ganges at Cawnpore is expected* to be shortly opened. It has been an undertaking of great difficulty, but the various obstacles which occurred have been overcome under the skilful superintendence of the Engineer in charge, Mr. Newton. Good progress is also being made with the South Indian Railway, a considerable length of which will be completed in the course of the present year. The works on the Neemuch State Railway are also going on slowly but satisfactorily.
- 5. As soon as the decision to alter the gauge for the Indus Valley Railway was Indus Valley known in India steps were taken for giving effect to it. Lieut.-Colonel E. C. S. Railway. Williams, R.E., Director of State Railways, immediately visited the line and arranged with the Engineer-in-chief how the change should be carried out. It is expected that, if sufficient funds are available, the line may be opened as follows; viz., from Kotree to Sunn River, 60 miles, in 1875, from thence to Sukkur, 162 miles further, in 1877, and for the rest of the way to Moultan, 216 miles more, by June 1878. Two large bridges have to be executed, one spanning the Indus at Sukkur, the other crossing the Sutlej near Bhawulpore.

^{*} Since this was written the last girder has been rolled on, and the bridge has been tested and pronounced ready for traffic.

6. The following table gives the length of each separate undertaking and the extent opened:—

	Railway.	Gauge.	Length of Line.	Length opened during 1874	Total Zength opened.	Portion laid with Double Line.	Length remaining to be finished.
		3	1	1,3			
1	East Indian - Main line -	5′ 6″	1,280	_	1,280	4147	_
	[Jubbulpore line]	-4.04	223	-	2231 1,2761	-	
,	Great Indian Peninsula	5′ 6″ 5′ <u>6″</u> i	1,278		457}	287	
	Madras Bombay, Baroda, and Central India	. ,5″ 9∷.† · . 5′ 6″	428	17	428	23	
ruaranteed.	Scinde, Punjab, and Delhi -	5′ 6″	667	_	567	ಜನವೆ ಶ	
֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	South Indian	8' 88''	610}	10.10	186		424
	Eastern Bengal	5' 6"	158	· ·	156}	9₹	
l	Oude and Rohilkund -	5′ 6′′	696	84	539	-	156
(Nulhattee	4' 0"	271		27]	· — ,	· —
	Calcutta and South-eastern	5′ 6′′	28	-	28		
1	Northern Bengal (to Darjeeling) -	8' 3 7 "	210	, 		.	,
	Punjab Northern	_	329		ا قرابلت ا		329
	Indus Valley CAgra and Delhi to	5′ 6″	193	_	_	1 1 5 5 4 5	493
	Rajpootana Ajmere Ajmere to Nussurabad	8′ 8§′′ . 8′ 3§′′	396	201	291	(†), '= 35 ; 1 6 ;	105
	and Indore Indore to Khundwa (Holkar's) -	8′ 3 3 ″	450 86}	57	 5 7		28
Charle.	Patree branch of Bombay, Baroda, and Central India Bailway -	5′ 6″	22	_	11.5) 22	4 · · · · · · · · · · · · · · · · · · ·	
2	Wurds Valley	5′ 6″	45	18	. 33	i e di se riti	12
1	Tirhoot -	8′ 34′′	53	58	58	(دــ	J 🚣 .
	British Burmah	. 8′ 3 } ″	160	_,			160
1	BERAR, Khamgaon	5′ 6″	71	,	. பி. ம. மே. ∳ம். மு த்ர	e de la composición dela composición de la composición dela composición de la composición de la composición dela composición dela composición de la composic	4
	Comrawattee -	5' 6"	51		61	H	·
i	Nizam's Government.	[대 원년 14 년 -	in the first		្រាក្ស ិ ត ព្រះស្រាក់	* 23 1 · · · 10	15 47 007
	Goolburga to Hyderabad and Scounderabad	5′ 6′′	128	128	128	- - - - (-)	_
÷	Total	_	8,640	558	6,272	727	2,158

^{7.} The additions which have been made to this list since the last report was issued are—(1) the line from Rangoon to Prome, in British Burmah, which your Lordship sanctioned in October last, after being satisfied that the expectations of its "direct remunerativeness" were "completely borne out" by the statistics of trade and traffic which were forthcoming; and (2) the line extending north from Indore to Neemuch and Ajmere to join the railway there from Agra and Delhi.

Annual progress.

^{8.} The following statement exhibits the annual progress gradually made in the construction of railways since their commencement:—

							•	Len	gth of	Line o	pen at	the en	d of ea	oh Ye	ur.		.' ·:					
Railways.	1853,	1854	1066.	1	1857.	1858.	1859.	1860.	1:61	1562	1868.	1864	1865.	1868.	1807.	1868.	1869.	1870.	1871.	1872.	1878.	1874
		1						1			1		1	,,,,,,	47.44		1000	10,0	20,1.	4072	1010.	1011
	·	i	ł		' f	1		' ·										' l			İ	
Fast Indian Rail- way (including Jubbulpore).		871	130}	1201	1201	141	2841	8074	5603	8831	937	1,1051	1,129}	1,1201	1,353[1,8534	1,863	1,8581	1,5031	1,5034	1,503	1,50
Great Indian Poninsula.	71.F	314	501	98 <u>₹</u>	881	1811	2451	2071	4371	4914	553	5851	7011	815)	852	875}	875)	1,255‡	1,3654	1,278}	1,2781	1,27
Madras	- 1	_	-	66 1	801	95	95	130	2971	447	447	571	611	645	645	6774	7071	783	882	882	857#	85
Bombay, Baroda.	-		- }	-	_ 		_	85	, 13 2	185	186	3051	805}	8051	3054	3051	305	3101	3401	8891	3891	40
Scinds -	-	_	— Ì	_	_]		-	_	1051	1053	105	1051	1051	10%	108}	1084	108	1081	108}	108}	1081	10
Punjab		-	, —				-	_	-	82	46	45	258	253	246	216	246	,	I			١
Delhi	-	_	_	_	- 1		_	+	-	_ 1	·	_ }	_	- 1	58	58	203	565	5851	5651	565)	56
Great Southern of	_	_]	-	-	-	_	_	_	, 40	79	79	79	79	137	144	168	168	168	168	168	168	18
South Indian.	_	_	_	_	_	-		_	يسا				18	181	. 18 į	181	184	181	18	188	184	١,
South Indian. Enstern Bengal	,	_		_	- 1		11.	-1		110	110	110	130	110	113	118}	1134	1561	1864	1561	1594	
Onde and Rohil-		;		-	:	_	·			<u> </u>	_	_	_ !	<u>.</u>	42	42	42	- 42	42	294	523	5.8
kund. Calcutta & South-	_		<u>.</u>	_	_ '	-	_	_	_	16	29	219	28	28	28	28	28	28	88	26	28	,
easteru. Nulhattee	1	_		_		_	_		_		27 à	274	274	271	27	274	27	27/4	271	271	271	
Khamgaon	_		`.	_	1			_	_ :									71	72	71		
	_	-				· i	_		<u> </u>			!	٠	اندا				51	54	7 % 5-k	5t	ł
Rajpootana -											11				_	<u>- </u>		93	DT	018	~	1
i	 .		-	-		_		-	,	-	i -			_			-	_	_	_	90	30
Indore -		1			_	-			-	_	[-	1.]	_	-	_	-	-	-	_	83	ļ '
Patree branch to Bombay, Barods, & Central India.	***	-		-	-	-	-	-		_	-	_		-		·		-	- *-	_	32] '
Wurda Valley -		- 1	-, .	 -	-	-]	-	-] —		.) —	-	-] -] -	-	-) – '		125	1
Tirhoet	_	-	–	-	_	-		l –	-	-	-	-	-	-	-	-		 		[–	-	
Hyderabad -		-	-	_	_		-		-	-	-	-	-	-	: 	-	-	*	-	-	-	1
Total -	813	72	171	2741	2891	4301	62.4	8361	1.581	2,351	2.516	1 2.90vi	3.368	3.568	8,997	4.017	4.987	4.833	5,078	E 282	5 790	6,2

9. In the last report the decision of your Lordship that the Indus Valley Rail- Gauge of way should be constructed on the standard gauge of 5 ft. 6 in. was recorded, and it Punjab was also mentioned that the line between Lahore and Peshawur would be con-Railway. structed on the same gauge "if considerations derived from the advanced state of the works" should not, in the opinion of the Viceroy, make this course inexpedient. By a resolution passed by the Governor-General in Council on the 3d August last, it was decided that the Punjab Northern Railway should be constructed on the . 5' 6" gauge, light rails being used, and certain works being so executed in the first instance as to be capable of being subsequently strengthened and made uniform in all respects with the Indus Valley line. The large bridges over the Ravee, the Chenaub and Jhehum have chiefly occupied the attention of the Engineers during the past year, these being the most important links in the whole line: but preparations for opening the narrow gauge line on the grand trunk road, pending the formation of a separate bank for the broad gauge, and the arrangements for the formation of this new bank, were also rapidly pushed forward. So was the work of examining the country north of the Jhelum for a line apart from the trunk road. The narrow gauge temporary line was opened for traffic from Lahore to Wuzeerabad towards the end of last year.

10. It has unfortunately become almost a regular task each year to describe the Flood disastrous effects of the rains upon the railway works. The floods of last season damages. were unusually severe, but the only line which suffered serious damage was the Madras. On a section of the North-west line, extending 110 miles, between Gooty and Rajampett, the inundations and torrents swept everything before them. four large bridges which spanned the Paupugnee, the Cheyair, the Chittravutty, and the Pennair rivers, most of them constructed of girders supported on iron screw piles, were either wholly or partially destroyed. These rivers and their feeders are dry for many months in the year, but in the monsoon they swell to the width of from a quarter to three quarters of a mile, and when the rainfall is like that of October last, they rush with irresistible force and scour the beds to a great depth when any obstruction occurs in their course. The Paupugnee bridge consisted of ten 140 feet iron girders placed on 19 piers at distances of 70 feet apart. The whole length was thus 1,400 feet. It was broken in several places. The current was estimated by persons on the spot who witnessed it to be running at a rate of 40 miles an hour. On the South-west line also considerable damage

was done. Five arches of the Goriattum bridge were broken, and a road bridge over the Palaar river near Vellore was destroyed. In consequence of these disasters the traffic was altogether stopped for 10 days on the South-west and 23 days on the North-west line; and on the latter, although it was afterwards carried on by temporary arrangements, direct railway communication was not restored for 12 weeks. The measures to be taken for rebuilding the bridges and placing them beyond the influence of future floods have been fully considered by the Government and Railway Company's Engineers in India, as well as by Sir John Hawkshaw, the Company's Consulting Engineer in England, and are now being carried out.

11. The chief causes of failure were insufficiently deep foundations in the bed of the rivers and inadequate waterway. The remedial measures will consist of protective works formed with walls, curtain walls, stone pitching and rubble stone, and in some cases of large additions to the waterway. The cost of these restora-

tions may be roughly estimated at 200,000l.

12. The new works on the Oude and Rohilkund Railway were severely tried but not much damaged by the rains of September, which are described as "unprecedented" in those provinces. This expression must, I think, be used, however, without sufficient ground, and strictly speaking is more properly applicable to the serious and novel effects produced than to the actual rainfall. Although, as is stated, the enormous fall of 9½ inches took place in one district between 9 p.m. and 7 a.m., and the Ganges at Cawnpore rose 9 inches higher than has been recorded, there is nothing to lead to the supposition that such a downfall never occurred before. It is only matter for regret that here, as in other places, the information was so imperfect that the Engineers were not forewarned. It was fortunate that the floods of the Indus last year were greater than had ever been remembered or recorded, as those entrusted with the construction of the railway along that valley will be furnished with data to enable them to judge how much waterway is necessary. Bengal was also visited by severe floods and storms. In the districts traversed by the Eastern Bengal Railway the waters rose as high as in 1871, when much damage was done to the embankments, but the precautions taken in consequence of that warning had the desired effect, and last season the works did not suffer.

13. In connexion with the subject of waterway, the subjoined statement which has been received from India, giving the length and dimensions of the principal railway bridges throughout the country, will be of interest.

STATEMENT of Cost and of some of the DIMENSIONS of the largest BRIDGES on RAILWAYS in India.

	 				1			1
		i.	2.	8.	4.	5.	6.	
Railway.	Name of Bridge.	No. of Spans.	Length of Bridge.	Depth of Foundation below Low Water.	Height from Low Water Level to under side of Girders.	Total Cost.	Cost per Lineal Foot	REMARKS.
Bast Indian -	Jumna (Allaha- bad).	14	Peet. 8,080	Peet.	Feet.	Rs. 40,75,800	Rs. 1,323	Ten wells in foundations of piers, which are of stone masonry, for a double way, but girders for a single
	•		•			,) }	way only yet laid. Common road- way 11 feet 6 inches wide in the clear between the girders. Railway on top of sinders.
, -	Scane	28	4,580	88	87.6	20,10,167	875	Double line over this bridge, with foot- way between girders 5 feet 8 juches
			l					wide in the clear. Rails on top of girders. Total cust Rs. 87,67,473, or Rs. 800 per foot, nearly.
•	Jumna (Pelbi) -	19	2,640	7 to 39	22-5	16,60,354	629	Actual cost. Ten wells in foundations of piers, which are not dressed with stone masonry. Substructure for a double line with girders for a single way on top, with a common roadway between the girders 11 feet 6 inches wide in the clear.
Scinde, Pun- jaub, and Delhi,	Jumna (Saharun- pore).	24	2,605	48	19	18,34,600	500	The contract rate was Rs. 428 per foot, but extensive additions have since become necessary, and the figures
	Sutlej (Loodi- analı).	59	6,456	40 to 50	17.2	31,06,076	481	shown are the total estimated costs, including the protection works at piers and abutments, exclusive of
,, -	Bean -	34	8,820	48 to 70	21	22,90,866	- 600	the cost of the bunds and training works, which are estimated as fol- lows.—Bess. Rs. 3,00,121; Sutley Rs. 2,03,850; Jumas. Rs. 1,92,338. Piers are on single wells 19 feet 6 inches
Eastern Bengal	Gornie Bridge - Approaches to Gornie Bridge.	7 11	1,205 403	79 to 98	51 Dry at low water	316,95,609	970	diameter. Actual cost for a single railway. Each pier consists of two iron cylinders surmounted by cross girders, on which there is room for another pier of griders for doubling the line. The approaches cost 3 lakhs. Deducting approaches, the cost per foot is Rs. 1,077.

Large bridges.

I ——————								
		1.	2.	8.	# Height	5.	6.	
Railway.	Name of Bridge.	No.	Length	_Depth of	from Low		Cost	_
		of	of	Foundation below	Water Level to	Total Cost.	per Lineal	- Remares.
		opana,	Bridge.	Low Water.	under side of	COSIL	Foot.	
				· ·	Girders.	'		·
	a (a		Peet.	Feet.	Feet.	Ba.	Rs.	
*Oude and Ro- hilkund.	Ganges (Cawn-	25	2,750	} 50 to 65	31.46	19,40,000	685 {	Estimated cost. One well of 18 feet
1) 1) -	Land Spans - Ganges (Enjghât)	33 33	80 8,040	55	24.30		(and one of 10 feet in pier. Railway over roadway between the girders.
.,		"			24 04	9,63,580	317	dismeter in pier foundation Pail
# ·	Geomtee (Joun-	16	1,472	45 to 50	44*17	9,00,000	611	Retirested cost for broad course.
	Ramgunga (Ba	88						Railway between the girden
"	reilly).	**	2,376	85	25.77	10,74,000	462	Estimated cost for broad gauge, Wells of 16 feet and 14 feet in pier founda-
	W (0)]					tion. Single cylinders. Railway on top of the girders.
Madras	Veturnee (South)	20 28	1,250 1,437	Average 19	127°5	3,33,089 8,80,887	20 6 266	Piers 8 and 5, iron pile column (double)
79	Parr Paupuguee	14 20	875 1,400	,, 16 Average	†57°5	2,84,616	825	Pier 3, iron piles (double). Pier 4, piles, single roadway.
	,,,	_~	2,200	depth of	190	1,62,258	116	The abutments are built of masonry for a double line, and screw pile
	}	1	,	piles below river bed]			trestle piers for a single line. Each pier consists of two groups of piles,
				is 15 feet.	1			a group being formed of five piles braced and surmounted by a strong
) .].]		·	1700 casting, over which the open-1
	Chittrawutty -	. 40	2,800	12 and 30	20	3,54,705	127	ings are spanned by plate girders. Permanent way for single line.
			} ```	feet deep.	}	0)031100	126	The two abutments, first ten and last ten piers, are built of masonry for a
				, 1				double line, and founded on wells to an average depth of 12 feet below river bed. The romaining 19 piers
		ł				ļ		RTA Of SCHOW Diles tweetle einciles to 1
								the Paupugnee, and carried to 30 feet below river bed. Permanent way
	Ponnair	24	1,680	11 and 12	21	1,79,525	103	for single line. Abutment and piers of masonry for
				feet deep.				double line. Foundation of abut- ments and six piers on each side are
				-		1		solid, carried down to an average.
					1			depth of 12 feet below river bed, and remaining 11 piers in the centre are
			[()	(founded on wells to an average depth of 11 feet below river bed. Permanent
Great Indian Peninsula.	Kistna	86	8,865	Average 15 : 69	†46°51	12,80,001	851	way for single line. Actual cost.
T empanion.	Taptee (Bhosa-	33	2,556	L 17·80	+57-88	18,64,900	534	Actual cost, double line.
19	wul). Cauvery -	22	1,586	Shallow on	86	4,08,752	206)	Actual cost, single line over masonry
п •	Toongabudra -	58	4,066	rock.	37	7,55,756	188}	piers built for a double line.
ъ -	Guerrah (Shahje-) hanpoor).	18	1,509	70 to 80	17:49	4,50,000	343	Batimated cost for broad gauge. Piers on one circular well, 14 feet diameter.
1. 1. 1. 1.	. •		} : •		1 1			Wrought-iron plate girders with rails on top.
. 20	Saic (Jounpoor) >	18	1,198	28 to 41	44.75	7,00,000	587	Batimated cost for broad gauge. Piers on two circular wells, 16 feet diameter,
٠		* .				•	1	abutments open foundations. Rail-
	Mhy Mhy - Bheema	27 28	1,687 1,317	Average 24	175.5		l <u></u>	way between girders. Piers of five iron piles.
	Caugues -	84	2,216	Uncertain	†46.7 †33.5	2,60,128 7,90,988	197 557	Double line masonry. Sixteen 75 feet girders for single line.
المراجع والأ					·		!	Six 60 feet girders for single line, 12 30 feet land. Masoury arches for
, .	Poun	, 6	1,146	Average 18	176	16,51,132	1,443	double line. Pour 196 feet and two
	Nerbudda (Jub-	11.	1,056	9	78:83	6,12,463	580	127 feet girder openings. Five 140 feet girders for single lines.
	bulpoor).	,			[] .	-	Six 40 feet masonry archer for double line.
Bombay, Ba- roda, and	Taptes (Surat)	30	1,876	Average 14	153	8,95,260	497	Actual cost for a double way Three iron piles in each pier.
Central India.	Nerbudda (Broach)	- 87	4,187	. 57	148.5	46,93,490	1,167	Actual cost for a double way. Pive
,			3,101	, pr 37	'=="	20,00,120	*,10/	iron piles in each pier, with a cluster
	Saburmuttee -	18	1,125	", \$1	†38°5	8,89,859	360	of 10 in every sixth pier. Actual cost. Single line piers of two
	Bassein (South)	69	4,312	,, 4£	†2 7-8	16,49,861	333	iron piles. Piers of 3 and 4 iron piles. Double
[_ ,	(North) -	25	1,562	36 70	12715	5,59,896	358	road. Do. do.
Rajpootana (State).	Jumus (Agrs) -	16	2,272	70	31-66	16,54,203	728	Estimated cost. Three wells in founda- tions of piers, which are of stone
	1							tions of piers, which are of stone masonry, and carry girders for a single railway, both broad and nar- row between, and common roadway
			'					LON KOD.
Punjab (Northern).	Ravee (Lahore)	33	3,217	75	. 20	(19,19,220	597	Estimated cost, without training works, for a narrow gauge railway.
(Z.O. MINITELY)				•.				Three wells in foundations of piers,
1 1 1 m	Chenab -	64	9,038	76	20	46,78,924	515	which are of brick mesonry. Do. do.
д . . н	Jhelum Sutlej (Bhauwul- poor).	50 16	4,875 4,824	30 100	20°75 Minimum	15,51,408 38,85,780	319 920	Do. do, Do. do.
	poor).				of 30.			[
			<u>'</u> '		·			

The figures for the bridges on the Oude and Robilkund Bailway are only approximate, and subject to revision.

† Height of roadway above low water.

N.B.—With the exception of the Cauvery and the Tourgabudra, the cost of engineer and general establishment is not included in the above. If it were, the total cost would be increased from one-eighth to one-fourth more, according to circumstances of time and place.

14. Another example of the difficulties arising from the action of water exists at Goalundo, the northern terminus of the Eastern Bengal Railway, where it has been rivers at Goalundo. found necessary to incur considerable expense in fortifying the station against the encroachments of the river Ganges. The works erected for this purpose, as described by Col. F. S. Taylor, R.E., Consulting Engineer to the Government of Bengal, "consist of a single spur formed of rubble stone and large concrete blocks, pro-" tected by a massive apron of stone, laid in 60 feet of water. This spur has been

"projected 500 feet into the stream, and its connexion with the shore has been made by an embankment of brick ballast, with a clay hearting." The effect of these precautions was watched with much interest during the floods of 1874. It was found at the close of the season that the end of the spur had subsided considerably, but that it had curbed the force of the stream which had been diverted 300 feet from the south bank. This was considered by Mr. Bradford Leslie, who examined the work with Mr. Benedict, the chief engineer of the railway, a satisfactory result, and their recommendation that the spur should be re-formed at the end and generally strengthened has been partially approved by the Government. This will, it is estimated, involve a further expenditure of 26,000%, the cost of the works hitherto having been about 95,000%. It is hoped that this important station, which but for the eroding action of the two great rivers, the Ganges and Brahmapootra, which here meet, is so well situated for the traffic coming to the railway from the northern districts of Bengal, will now be permanently secured from all danger.

Railways and the famine. 15. The part that railways played in the great event of the year must not be passed by in silence. It may safely be asserted that without their aid the exertions of Government to supply the famine-stricken districts with the requisite amount of food would have been ineffectual. Praise has justly been bestowed upon the agents and officers of the three railway companies, which were engaged in the duty of conveying grain, for the regularity, expedition, and safety with which the enormous traffic was conducted, and the various arrangements made for handing over the supplies to the Government officers were carried out. The daily despatches from Howrah averaged 2,200 tons. The total quantities delivered by the railways were 306,697 tons of grain, 440,886 tons of rice, and 95,113 tons of pulses, of which 616,993 tons were conveyed by the East Indian Railway from Calcutta, 170,490 by the Scinde, Punjab, and Delhi Railway from the North-West, and 53,370 by the Great Indian Peninsula from the Central Provinces. It is estimated that about 80,000 were also carried by the Eastern Bengal Railway. The rest came from Oude and Rohilkund and from Rajpootana. Of the whole 842,696 tons, 479,696 were purchased by Government, and 363,000 by private traders.

16. The value of railways in such an emergency as that under consideration was fully acknowledged by the Government, who also bore testimony to the energy and judgment displayed by their officers in performing the onerous duty of providing food to the famishing multitudes at the right time and at the proper places.

17. The following extracts from a resolution by the Government of India, dated Calcutta, the 18th February 1875, bearing on the subject, may here be introduced:—

"Great advantage was derived from the arrangement made to reduce at once the rates for the carriage of grain by railway, the difference being paid to the railway companies by the Government. The effect of this measure was to stimulate the importation of grain by railway into the distressed districts; but, owing to the great distance to be traversed and the necessity to traders of quick conveyance in order to secure the profit offered by the rise in prices, this advantage given to the railways did not materially injure the river trade, which is slow, and, moving in regular course, does not readily adapt itself to a sudden demand.

"The traffic arrangements of the East Indian Railway Company showed the power of the company to meet the strain of a very large additional traffic within a limited time. It is not too much to say that the relief operations could not have been successful, had it not been for the trunk line of railway, which, passing through Behar, unites Calcutta with the Punjab. An additional proof has thus been afforded of the wisdom of the measures for railway construction in India which were commenced by the Marquis of Dalhousie, and have since been steadily prosecuted.

"The manner in which the grain was conveyed from the railways to the places where it was required has afforded a remarkable instance of the great resources of the country in wheeled conveyance, and of the facility with which they may be brought to bear by the offer of profitable rates of hire. The Government of India entirely approved of the contracts made, at Sir Richard Temple's recommendation, for the transport of rice to North Behar. The cost was great, but the danger was not exaggerated. The immediate superintendence of the transport, when it assumed its full dimensions, was entrusted to officers of the army, and the manner in which this duty was performed shows the confidence which may be placed in the efficiency with which such transport would, if necessary, be brought to bear upon military operations."

The special acknowledgments of the Government of India were conveyed to Col. F. S. Taylor, R.E., the Consulting Engineer, and to Captain Wallace, R.E., and Lieut. Bisset, R.E., Deputy Consulting Engineers, for the successful way in which they performed the "exceedingly arduous and responsible" work which devolved upon them, and for the cordial manner in which they co-operated with the officials of the railway company. The Viceroy in Council also congratulated the Members of the Board of Agency of the East Indian Railway Company, Mr. Cecil Stephenson and Mr. G. Sibley, "on the highly successful termination " of their labours in providing for the despatch of supplies of food grain to the distressed districts," and requested them to convey to Mr. J. C. Batchelor, the traffic manager, to Mr. D. W. Campbell, the locomotive superintendent, and the other officers of the company who were engaged at the time of the great strain upon the resources of the line, the thanks of the Government of India for their services. In like manner were recognised the services of Mr. Franklin Prestage, the agent of the Eastern Bengal Railway, and those of Mr. Joseph Harrison, the acting agent and chief engineer of the Punjab and Delhi Railway, and their respective assistants and staffs.

18. I may also be permitted to quote the following portions of the Minute of Sir Richard Temple, K.C.S.I., the Lieutenant Governor of Bengal, on the services of officers employed under him, in the Railway Department, during the famine relief.

"The construction of the temporary line from the Ganges to Durbhunga (fiftythree miles of length, opened only after fifty-three days' work) was an extraordinary achievement in respect to speed. To carry the line over a country intersected by three considerable streams; to make it strong enough to carry 2,000 tons in a day; to open it within the prescribed time, demanded primarily an indefatigable energy, but also professional skill and administrative ability. All these qualities were displayed by Major F. S. Stanton, R.E., the Engineer-in-chief. Having thus made the line, he worked its heavy State traffic with the same efficiency.

"In this race of work against time, the officer whom he termed his right-hand man was Lieut. W. H. Rathborne, R.E., whose endurance and ability were con-

"Major Lindsay was Engineer-in-chief of the Northern Bengal State Railway, the commencement of which was undertaken as a relief work. The railway was designed before the famine was apprehended, and will continue to be prosecuted. Throughout the famine he showed every desire to render the railway work useful for purposes of relief. He also undertook several "feeder" roads, that is roads leading from the interior to the sites of railway stations, the labour on which roads

afforded employment to the distressed poor.

"The members of the Engineering staff on this line had to keep the works open for all comers during the most insalubrious months of the year, in a country flooded in the rainy season. They were in consequence all prostrated more or less by sickness. Among them the following officers have earned commendation for their conduct:—Mr. W. B. Carter, Superintendent of Works; Mr. T. M. Vigors, Superintendent of Works; Mr. H. W. Henderson, Executive Engineer (who employed many thousands on the railway feeder roads under his charge); Mr. J. M. Luff, Executive Engineer (who also performed much useful grain transport work."

PROCEEDINGS IN THIS COUNTRY.

19. The amalgamation of the Great Southern of India and the Carnatic Railway Amalgama-Companies, under the name of the South Indian Railway Company, has been Southern and satisfactorily carried out in pursuance of the Act which passed last session, Carnatic and the new Company is working well.

20. The duties which have to be performed in this country in connexion with Proceedings the railways have been discharged with regularity and despatch. The following in this tables relate to some of the work which has been done, but one of the most im-country. portant duties executed at home is the general superintendence which embraces a thorough examination of results. The working of every department of each undertaking should be carefully investigated and compared. Thus weak points in one may be discovered and the success of another may be proved, furnishing examples to follow or avoid.

21. It will be seen by the following tables that 156,636 tons of materials, exclu-Shipping sive of coal, have been shipped for the various lines during the past year, and that operations. 108,478 tons of fuel have also been despatched. The gradual development of the

coal resources of India which is now going on will reduce this latter item in future years. Five ships were lost during the year; one with goods for the East Indian Railway, valued at 1,632*l*., three with coal for the Bombay, Baroda, and Central India Railway, of the value of 9,454*l*., and one with stores for the Government, valued at 6,149*l*. All were insured but the last.

SHIPPING OPERATIONS, exclusive of Fuel, during 1874 on Account of the Guaranteed and State Railways.

Railway.	Number of Ships employed in 1874.	Number of Tons of Goods shipped in 1874.	Value of Goods shipped in 1874.	Amount paid for Freight and Insurance in 1874.	Average' Rate of Freight and Insurance per Ton.
		Tons.	£	.	£ s. d.
East Indian	37	2,977	82,005	7,098	2 7 7
Great Indian Peninsula	40	9,393	74,862	18,613	1 19 8
Madras Bombay, Baroda, and Central India Scinde, Punjab, and Delhi	37	3,588	47,880	7,372	2 1 1
	27	2,256	29,916	5,270	2 6 9
	15	2,708	44,419	7,848	2 17 11
South Indian	50	44,62 2	378,027	72,978	1 12 8
	12	171	2,171	22 3	1 6 0
Oude and Rohilkund State Railways	21	3,168	93,401	6,662	2 2 1
	189	87,753	1,139,882	147,532	1 13 9 9 •
Total	428	156,636	1,892,552	283,596	e to silve in the

^{*} Without insurance.

AMOUNT and Cost of Coal and other Fuel sent out from this Country in 1874.

Railway	Number fro	of Tons m Engla	supplied ad.	Total	l original	Cost.	m paid for Freight	Ton	ge Cost when b Englai	ought	Ton	ge Cost deliver India.	
Company.	Of Coal.	Of Coke.	Of Patent Fuel, &c.	Of Coal.	Of Coke.	Of Patent Fuel, &c.	Sum paid fe	Of Coal.	Of Coke.	Of Patent Fuel, &c.	Of Coal.	Of Coke.	Of Patent Fuel, &c.
East Indian* Great Indian Peninsula Madras Bombay, Baroda, & Central India. South Indian Eastern Bengal	200 55,681 11,360 34,539	556 	799 2,914	£ 240 45,246 10,053 81,378 1,094 123	£ 1,252 731	£ 699 6,769	£ 1,492 87,169 23,348 Included in price 1,420 79	a. d. 24 0 16 3 17 8	s. d. 45 0 17 0 24 6	a. d.	4. d. 57 6 47 6 49 1 47 2 88 3	s. d. 86 8 54 3 40 0	8. d.
Totals -	108,249	1,516	8,718	138,133	1,988	7,468			2 E 3	100 s			

For foundry purposes.

SHIPMENTS FROM THE COMMENCEMENT. LEGISLAR SECRET LOUIS

	Period.		F	Number of Ships employed.	Number of Ships lost.	Number of Tons of Goods shipped.	Amount paid in England for Goods shipped.
77	- 5 m	47 5 34	1	3 30		र १, १ <u>१ अङ्कृत</u> ्यारम् है	in. Ci
Up to end of In 1861 " 1862 " 1863 " 1864 " 1865 " 1866 " 1867 " 1868 " 1869 " 1870 " 1871 " 1872	1860 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -			2,605 407 280 279 233 442 581 512 364 455 461 307	39 	2,094,686 181,621 138,013 166,840 102,318 199,157 312,227 333,329 188,858 211,750 263,449 164,049 66,534	10,431,976 1,669,443 1,487,582 1,285,464 1,018,164 1,729,543 2,527,757 3,052,652 1,849,554 1,432,784 1,688,209 707,765 655,822
" 1873 " 1874	Total		, '₽ ⊶₹ ; '' ♣ '' ,	404 426 8,074	2 5 75	201,590 265,114 4,893,535	1,561,602 2,042,136 83,140,453

22, The manner in which the 95,119,1191. of capital issued by eight companies Shareunder the "guarantee" is held, will be seen by the subjoined statement. The holders. remarkable feature of the return is the small number of shareholders in India, especially of natives.

er na _{ser} geral de la com- de de posterio de la com-	No	mber of Share	holders on S	31st Decembe	r 1874.			ber of	1
	Regis	tered in Engla	nd.	1	n India.			enture ders.	Total Number of
Railway,	With Stock or Shares to the Amount of 1,000l. and upwards.	With Stock or Shares of less Amount than 1,000L	Total in England.	Europeans.	Natives.	Total in India.	Bond.	Stock.	Proprietors on the 31st Decem-
East Indian - Great Indian Peninsula - Madras Bombay, Baroda, and	7,045 5,518 8,101	8,181 7,529 4,098	15,226 18,047 7,199	125 134	. 168 147	293 281	872 585 194	885 1,452	17,276 15,915 7,398
Central India Scinde, Punjab, and	2,360	3,621	6,181	18	40	53	*248	_	6,477
Delhi South Indian Eastern Bengal Oude and Robilkund	3,409 919 5 -7 654	5,221 1,502 982 1,418	8,630 2,421 1,686 2,457	72 - 24 80	13 22 26	85 46 106		127 151 125	6,715 9,546 1,888 2,688
Total	24,050	32,747,	56,797	448	416	864.	1,899	2,740	62,800

* One allotment of 200,000% is represented by one out of this number.

† The bonds issued by this company being payable to "bearer," and transferable, no record of the number of holders exists.

PERSONS EMPLOYED ON THE RAILWAYS.

23. It will be seen by the following tables that, on the 30th September 1874, the Railway total number of persons employed on the railways amounted to 101,595, of whom officers and 96,013 were natives, 3,239 Europeans, and 2,343 East Indians. This number is 25,934 in excess of last year, while the mean open mileage has increased from 5,464 to 6,020. On the East Indian alone the number rose from 21,615 to 35,676, owing, no doubt, to the great additional work in connexion with the grain traffic to the districts where scarcity prevailed. The cause being temporary, a reduction will have since been made.

, 24. Endeavours are being made to employ natives and Indian-born more generally, and to train them to the duties of mechanics, platelayers, and fitters. In some cases considerable success has attended the attempt. There is more difficulty in making them engine-drivers and shunters, but examples exist to show that the necessary qualifications for these duties may, with proper training and practice, be attained.

25. It appears by a classified return of persons employed on the Great Indian Peninsula Railway, that out of 180 drivers in the service of the Company on the 31st December last, 163 were Europeans, 12 East Indians, 4 Parsees, and 1 African. Out of 99 firemen, 52 were Europeans, 22 East Indians, 3 Portuguese, 18 Parsees, 3 Africans, and 1 Hindoo. Where mechanical work only is required the natives are employed in greater numbers. For instance, out of 509 fitters, 116 were Hindoos, 145 Parsees, 93 Mussulmans, and 59 Europeans. Out of 966 carpenters, 620 were Hindoos, 113 Portuguese, 150 Parsees, and only 3 Europeans. Some idea of the economy that would result from the more extended employment of natives may be gathered from the fact that while the average amount of wages per month earned by Europeans in the locomotive department was 127 Rs., say 121. 10s., the average received by Hindoos was 22 Rs. or 21. 4s., by Mussulmans 19 Rs. or 11. 18s., by Chinese 32 Rs. or 31. 6s., by Parsees 38 Rs. or 31. 16s., by East Indians 65 Rs. or 61. 10s.

26, On the Madras line many East Indians are employed in the capacity of shunters, engine-drivers and firemen. Col. White, Consulting Engineer to the Bombay Government, says, after a visit to the Madras line, "that a good class of "men can be raised out of the native labourer fit for even higher duties, is "shown by the fact that at the Madras Terminal Station, all the shunting "operations are conducted by a native, drawing Rs. 75 a month, who has risen from the position of a porter." On the East Indian also natives are being employed as shunters with great success, and native guards are also being introduced.

27. I may mention that on the Oude and Rohilkund Railway the novel arrangement of employing female servants as ticket collectors and attendants on carriages reserved for women has been adopted with success.

Education of European children.

28. Schools are established for the children of the European servants, but I have only received particulars of those which are associated with the East Indian Railway. On this line there are 18 schools receiving aid from the Company and grants from the Government. Mr. Campbell, the Locomotive Superintendent, who has had the management of these schools for several years, reports that for the half year ended the 31st December 1874 the average monthly income amounted to Rs. 2,143, consisting of, school fees Rs. 841, Government grants Rs. 695, Railway grant Rs. 607. The attendance compares favourably with that of schools in this country. The number of pupils on the roll was 647 and the average daily attendance 556, which was 87 more than the former and 118 higher than the latter in the previous year. It has been arranged that the heads of departments shall take turns in the management each year.

ACCIDENTS.

11.115

Accidents.

29. The total number of accidents to trains during the year was 767 compared with 621 in the previous year, but 407, or about 51 per cent., of these were cases of running over cattle, causing no harm to passengers or stock. The others were caused by collisions, of which there were 68; by vehicles getting off the line, of which there were 103; by fire, of which there were 92. The rest were due to various minor causes. Of the 24,553,620 holders of passenger tickets, 13 were killed and 70 were injured, but 12 of the former and 27 of the latter were cases arising from imprudence or misconduct of the sufferers. Thus, in round numbers, there was only one passenger out of the 24½ millions whose death was owing to causes beyond his control, making the average '04 per million. One in 571,000, or 1.75 per million, was in like manner injured. This compares favourably with railway travelling in this country, where during last year, one in 2,274,881 was killed, and one in 242,302 was injured from causes beyond their control. The casualties amongst the railway servants were 106 killed and 181 injured, 93 of the former and 140 of the latter from causes within their control.

Causes of accidents.

30. Of the 68 cases of collision, 34 are attributed to the fault of drivers, 12 to the station staff, 9 to pointsmen, and 9 to workmen employed on the line. Altogether, 6 persons were killed and 56 injured from this cause. The most serious collision was on the Great Indian Peninsula Railway, when a special troop train and a goods train ran into each other, causing death to 4 railway servants, and injury to 23 passengers and 2 servants. The number of accidents from trains and vehicles leaving the line amounted to 103, of which 49 were occasioned by the carelessnes of the railway servants, chiefly pointsmen. The casualties were 19, 2 killed and 17 wounded, 12 of the latter receiving injuries in an accident on the East Indian Railway in October, during the cyclone, when a mixed train was met by the full force of the wind and brought to a standstill, completely upsetting 23 vehicles and breaking the engine coupling. The accidents from fire numbered 92, 82 of which were caused by sparks from engines, but no injury was done to passengers or railway servants.

31. The 407 cases of running over cattle were said to be due principally to the defective state of the fencing. It does not appear whether the locomotives were invariably armed with cow-catchers, but these, when used, were not always effectual in preventing the animals being run over. Two cases are reported of horses escaping from trains. In one a pony, and in the other, two horses, jumped from their boxes, the pony and one horse being run over and killed, the other horse escaping unhurt. Among the minor miscellaneous causes were those arising from the carelessness of pointsmen, the sleepiness or negligence of gatesmen, and failure of machinery. Six also occurred from malicious attempts to throw trains off the line, but they were all the acts of mischievous boys, who were caught and punished. Accidents to passengers seem, as usual, chiefly to have arisen from attempts to get in and out of trains while in motion:

32. Several deaths occurred amongst passengers in the carriages or at the stations from causes unconnected with the working of the railway, such as diarrhea, dysentery, fever, cholera, small-pox, heat apoplexy, sunstroke, &c. Many of these arise from passengers attempting to travel when quite unfit for a journey, some actually starting in a dying state in the hope of reaching home or a sacred spot.

NUMERICAL RETURN of all Races employed on open Lines of Railways in India, and on the Indus Steam Flotilla, on the 30th September 1874.

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	Railways.	inclu Accou Media Sta	ding Ap nt, Pay cal, Bar tionery	ministra gency, A master's rack, Pri , and Pol siments,	udit, Stores, inting, lice	Tr		l Telegra tments.	aph	En	gineer's	Departr	nent.	and	Wagou cluding	e and Ca Departi Steamb	nents, oat			Potal.		of Miles open,	Stations,
		Europeans.	East Indiane.	Natives.	Total.	Europeans.	East Indians.	Natives.	Total.	Europeans.	East Indians.	Natives.	Total,	Europeans.	East Indians.	Natives.	Total.	Europeans.	East Indians.	Natives.	Total.	Number of Mile	Number of Stat
В 3	East Indian	68 13 28 48 3 1 18 1 14 7 39 16	85 2 30 12 14 — 10 — 45 18 31 30	3,287 712 571 476 190 12 13 160 12 455 120 1,099 616	3,390 727 629 536 207 13 14 188 13 514 145 1,169	332 69 26 97 7 —————————————————————————————————	194 42 13 36 25 — 19 1 308 20 206 53	10,519 1,178 825 1,472 148 74 42 257 . 68 1,944 274 3,516 1,888	11,045 1,289 864 1,605 180 74 42 291 78 2,287 296 4,031 1,457	76 16 60 29 5 — 28 1 34 3 85	17 7 23 8 2 1 	11,018 1,547 4,570 3,252 589 100 69 1,559 102 4,384 610 9,692 2,686	11,111 1,570 4,653 3,289 596 101 69 1,592 104 4,498 617 9,800 2,717	642 90 59 121 78 1 1 24 4 138 28 468 67	217 38 34 38 68 1 25 112 156	9,271 1,710 1,891 2,766 1,028 40 60 161 86 2,214 141 5,942 1,147	10,130 1,838 1,984 2,925 1,169 42 61 191 41 2,675 189 6,522 1,870	1,118 168 178 295 88 2 85 10 221 85 901	468 89 100 94 109 2 	34,095 5,147 7,857 7,966 1,955 226 184 2,187 218 8,997 1,145 20,249 5,837	35,676 5,424 8,130 8,855 2,152 230 186 2,262 231 9,974 1,247 21,522 6,206	1,503 159 540 554 109 28 27 216 37 858 187 1,266 448 248	34 76 47 9 8 6 26 5 85 26 136
	Total on Railways under the Government of India. Total on Railways under the Government of Madras. Total on Railways under the Government of Bombay.	181 21 55	103 68 61	5,433 575 1,715	5,717 659 1,831	550 37 825	330 328 259	14,588 2,218 4,904	15,463 2,588 5,488	215 37 107	84	22,806 4,994 12,378	23,085 5,115 12,517	1,015 161 585	403 848 268	16,963 2,355 7,089	18,881 2,864 7,892	1,961 256 1,022	900 823 620	59,785 10,142 26,086	62,646 11,221 27,728	8,174 ¹ / ₄ 1,045 1,714 ³ / ₄	363 111 213
i	Total Indian Railways	257	227	7,723	8,207	912	917	21,705	28,534	359	180	40,178	40,717	1,711	1,019	26,407	29,137	3,289	2,348	96,013	101,595	5,934	687

[·] Inclusive of Dhuboe Patree and Dakore branches,

No. I.

NUMERICAL RETURN of CASUALTIES, whether by Death, Resignation and Discharge, or Dismissal, amongst the European and East Indian Employés on the Railways open for Traffic in India during the Nine Months ending 30th September 1874.

	1	PAT	MAG	AGI TER Per	s B1	r, Au ORS	15. ML	BDIC BDIC	CAL. BBY,		-	TRA			Tele		PIT			Enc) I N II i	HP'S	D¤P▲	RTME	NT.	_4		V ▲GO	n De	PART	M BRT	3, IN	GB AN CLUDI:	MG _					Tora	I.	<u> </u>	_ -		-		. •
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lastern Bengal	18	-	4	2	8	Š	-	- -	- -	- .:0	7 -	16	16,	80	40	•	7	u	17	1 7	1	3	98	- I	-	<u> </u>	54	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓		16 2 1:		11	8 -	7 1		87 1 78 4	26	34	61 38	100		- [1		
ude and Rohilkund	28	-	1 -	_	1	80	1 -	-	ĨL.	9 2		4	*	8	18	5	18	20	60	8 8		11	1 1] ;		1	18	1 1		7 9 5	41		223	Ι,	ŀ	48 11	80	1	114	108	4 84	3 16	#2	554		
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alcutta and South- eastern (State). ulhattee (State) -	la la		_ .	_ .				- -		1				_	_ _		-	-	-	- -	. _	-	-	Ц-	· -	<u> </u> -	1	6 —	-	- -	- -	-		<u>-</u> 4	- ;	3 -	-	-	-	-	}- -	. 1	- -	27	emple the	ved Gener
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ombay, Baroda, and Central India.	18	<u> </u>	<u>- </u>	- -	_[31 -	- 1	3		1	<u> </u>	1	-	1	58 1	8	1	5	20	6	1 1	7	11	<u> </u>	<u>' -</u>	1	67	· `	+	2 1	1.	+		1	-							<u></u>	 -	<u> </u>	no los the se	rvice.
tal on Railways under I	190	1 1	7	3 3	an þ	06	2 4	4	8	3 50) 4	114	120 2	38 3	38 e	8 B	29	181	228	6 25	10	1.			3 5		1,08	- 1 1	t	17 89		1 1	- 1	4 10	1	-	1			-	13 154	1	1	3,088 1,046		
tal on Railways under overnment of Madras.	94	1	8	1	8	84.	2	6	~	0 :4	1	-	1	8 8	- 1	38		58	86	1 8	1	4		!	3	1	1 -		- T	6 2 18 18	9 342 2 273	11	20 50 1	9 8		78 8	27	25		887	1 1 1		1	1,708		
otal on Railways under overnment of Bombay.	55	8	•	-\	7	625	٦ ا	5	8	0 32	6 8	46		57	1646	89	•	47	118	1 14	י ו	91	36					_ _			_ _	_ _	_	_ _					_			_	<u>. </u>	<u> </u>	Į	
otal Indian Bailways	289	B 7	-	8	82	232	4 1	5	6 9	5 95	8 12	160	127	800 K	71 1	138	84	281	877	8 44	11	68	191	1 94	6 8	88	1,75	4 86	882 1	41 55	9 1,02	4 7	45 4	19	8,8	28 62	810	282	954	2,418	21 322	142	485	5,841	<u> </u>	

No. II.

STATEMENT showing the NUMBER of SERVANTS EMPLOYED in the TRAFFIC DEPARTMENT of all Railways open for Traffic in India, and the Casualties amongst them, whether by Death, Resignation and Discharge, or Dismissal, during the Nine Months ending 30th September 1874, distinguishing those engaged in India and in England.

	A Company of the Comp		. 1	ENG	AGE	D IN	EN	GLA	ND.									EN	GAG	ΈD	IN I	NDI	۸.			· .	•]	•		_		<u>.</u>		4					
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	RAILWAYS.	7	No.	of Ca	isuali Y	ties	,	No,	of Ca		ies		No. 01	Cosu	altics		No	of Cr	isualt y	ies		No.	of Car	maltie	s	No.	of Ca	su al tie	39	No		jamiaj pa	ties	4:	No.	of Ca	sualti	66		Zemari	ES.
		No. employed.	.5	Resignation and discharge.	Dismissal.	Total.	No. employed.	Desth.	Resignation and discharge.	Dismissal.	Total.	No. employed.	Death.	discharge.	Total.	No. employed.	Death.	Resignation and discharge.	Diamissal,	Total,	No. employed.	Death.	Resignation and discharge.	Dismissal. Total.	No. employed.	Desth.	Resignation and discharge.	Dismissal.	No. employed.	Doath.	Resignation and discharge.	Dismissal.	Total.	No. employed,	Death.	Resignation and discharge.	Diemiseal,	TOTAL	<u>-</u>		, ·
E	Sast Indian Sastern Bengal Jude and Rohilkund Punjab and Delhi	- - 1		1 1 1	1 1 1	1 1 1	3 2		4 : 	ł	4 4	58 41 28	-	8 6 9 1 4 4 8 1	20	61 9 12 19	1 - 2	8 1 5	6 - 3	15 7 5 7	65 24 3 85	1 1 1	20 6 -	7 27 4 10 8 14	31 1	 - - -	81 8 8	20 6 1 - 10 13	0 320 4 67 - 26 3 109	-		15	146 30 8 8	159 40 13 41	1 _ _ 2	5	35 7 7 1 —	5	, .		
1	Scinds		_ 	-	_ _	 	- - -		1 1 1	- - -	- - -	8 - - 12	- - - - - - - - - -	- 1 - - - -		9 - - 19	2	 - -	_ _ _ 1	-2 - -	1 1 —	_	1	1	16 - -	- - - -	- - -	- - - -	7 1 		1	1 -	1 1 —	25	2 -		1 1	2	~ .		,
1	Holkar (State)	 - -	-	- - -	-	- -	- 1 -	 	- - -	- - -	- - - -	23	1 -	3 '1 3 -	4	1 209 16	1 1 -	15	-	1 26 8	7	- - 	_ _ _	1 1	4	 - -	- 9 -	_ - s 15 - -	. 2	-	3 -	1 1 -	5	1 268 20	-	1	13 8	3	-	• ,	
	Great Indian Peninsula Bombay, Baroda, and Contral India	t		-	- -	-	4	-	-	_		58 10	8 3	1 -	3 49 - 1	101 28	- 1	23	8	26 1	88 3	-	7	_ -	105 35	1	18 8	3 10	309	8	1	8 -	1	206 58	1	36	1 1	- i			
	Total on Railwaya under the Government of India Total on Railwaya under the Government of Madras Total on Bailwaya under the Government of Hombay	1 - 9	-	- - -	 - -	- - 	9 7 8		- -	- -	5	06 23 38	1	a -	188	225	6 1 1	16	12	47 29 27	132 9 41	- - -	-	1 52 1 1 - 7	1	- - 1	97 9 16	40 77 3 19 3 20	89	1 8	114 3 43	120 2 1 6	Б	298 288 264	1	25	56 124 15 41 6 47	ı			
	Total Indian Railways .	10	1-	-	-	_	24	-		_	- 6	97	15 1	20 10	240	479	В	64	31 1	108	182	_	40		371	1	62	46 108	913	13	160	127 3	00	850	9 1	26	77 815	8			•

N.B.—With the exception of the East Indian and Madras Railways, the figures of all the other railways represent the casualties in both the Traffic and Telegraph Departments.

No. III.

STATEMENT showing the Number of Servants employed in the Locomorive and Carriage and Wagon Departments of all Railways open for Traffic in India, and the Casualties amongst them, whether by Death, Resignation and Discharge, or Dismissal, during the Nine Months ending 30th September 1874, distinguishing those engaged in England and in India.

]	BNG	ÀG	ED	IN	EN	GLA	ND.			L								E	NGA	GEI) IN	IN	DIA.																					
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		:	Bur	opes	me.				Bure	pea	n#.			F	uror	евп	i.			East	Ind	iane			R	ırope	cans.		Ī	E	ast Ir	dla	0.0	-		duroj	ean	6,	-		East :	Indi	ans.				
RAILWAYS.			No.	of C	heu by	altic	s		No.		asua Oy	lties		1	Vo. a	t Cru by		les		No	of (Casu by	utles		N	o. of	Casu	alti	ea]		No. 0	Car by	malti	38		No. o	d Cau	sualt	ice		No.	of C	есца У	Lties	•	Remai	BEC.
	,	TAC: CIPROS CIP	Í	Refignation and discharge.	Dismissal.	Total,	N.	Take emproyee	Death.	Kengnation and discharge.	Diamissal,	Total.	No. employed.	:	Besignation and	ائه ا	Dismissal.	Total.	No. employed.	Death.	Resignation and	Dismissal.	Total.	No. employed.	Thereth	Resignation and	discharge.	Total	Tomat:	No. employed.	Dosth.	discharge.	Dismissal	1044	No. employed.	Death.	discharge.	Dismissel.	Total.	No. employed.	Death.	Resignation and discharge.	Dismissal.	Total.	-		
ast Indian astern Bengal ude and Rohilkund unjab and Delhi uinde alcutta and South-eastern (State) ulhattee (State) ajpootana (State) olkar (State) adras uth Indian reat Indian Peninsula ombay, Boroda, and Central India		5	2 2 2 2	39 	3 1 1	1112	1 7	2 5 5 6 2		1 1 12	1 8 1 1 1 1	3 2 - 1 1 1 3 2 2 1 1 3 2 1 1 3 1 3	2000 877 388 99 77 ———————————————————————————————		2 2 3	4 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7 6 5 5 3 3	18 0 49 1 	78 14 18 27 1 1 - 5 - 07 18 49	1 1 1	100 5 2 17 — 8 — 7 1 6 6	- - - 2 - - 8	2 4 7 5 6	2: 117 8: 8: 1 1 1 6: 4 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1	\$ -7	I	2 - 3 - 5 - 1 - 5 - 1		3 4 8 1 1 1 2 2	24 21 21 14 22 1 1 1 1 009 24 68	1	3 d 6 1 - 9 3 L5	2 - 1	5 6 5 1 1 - 1 1 8 6 5 6	90 59 188 17 1 1 24 4 142 34	1 1 5	191 6 12 500 2 1 - 3 - 10 8 80	16 - 7 - 6 9 8 8 8 16 J	284 22 13 58 8 1 9 2 18 11	217 58 34 41 20 1 6 1 306 37	1	33 6 8 22 1	17 2 - 3 2 - 1 8	8 26 1 2 -	th th lar	ation, a se Loco ertment ilways,	e Europe myloved al Admi and one motive of these but cut against e
Total on Railways under the	122		8	39 1 11	8	44	19	<u> </u> 	1 2	3 2 12	8	7	495 71 219		8 18 8 1 8 1 8 8	19 1	25 2 6		17 133 110 66	8 1 -	36 8 11	14	53	64	5 9	3 8	• -	8 4	- <u> </u> 0 2	34 34 38 07	1 :	12	-4	9 1	176	14 2 5 16 1	18	2 13 8 6 18 1	192 29	367 343 273	<u> </u>	74 20 50	24	31		•	

Table No. 1.

ABSTRACT of the NUMBER and NATURE of the ACCIDENTS and of the Injuries to Life and Limb which have occurred on all Railways open for Traffic in India during the Year 1874.

36.				Classificat	ion of Ac	cidents to	Trains,	Ło.) 	Passe	ngers.		Serva	nts of C Contr	ompanie actora	s or of			Oth	iers.					
	Under the Control of the	o open.	Railways.		dain Hen	da.	-		beyone	Causes d their ontrol.	From the Miscon want of	luct or	From (beyond own Co	their	Miscon	heir own duct or Caution.	Whilst at I Cross	evel	While passing ding S	t tres- (inclu- uicide).	Miscella	RIJEOUS.	Tota al	il Personi il Clauses	8 of
,	Government of	Mean Mileag		I. Colliston. II. Getting off proper	III. Fire.	IV.Running over Catillo.	V. Other Causes.	Total.	Killed	Injured.	Killed.	Injured.	Killed.	Injured.	Killed,	Injured.	Killed.	Injured.	Killed.	Injured.	Killed,	Injured.	Killed.	Injured.	Killed and Injured.
C	India	1,504 1,504 1,504 158 157 524 874 554 556 109 105 28 28 27 173 91 33 Nil.	East Indian - 1874 1873 1874 1873 1874 1873 1874 1873 1874 1873 1874 1873 1874 1873 1874 1873 1874 1874 1874 1874 1874 1874 1874 1874 1874 1875 1874 1875 1874 1875 1874 1875 1874 1875	36 21 34 25 1 — 5 7 85 6 14 12 24 2 2 4 1 2 19 2 4 1	10 14 — 1	184 115 1 18 12 4 10 15 13 31 2 2	6 27 — 13 8 14 16 18 12 — 2 1 10 2	267 216 2 8 55 36 57 74 41 37 2 6 1		18 15 2 1 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 6	17 20 1 1 1 1 3 1 3 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 	13 6 7 8 2 7 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	27 19 6 2 7 8 4 14 1 — — 9 1	70 65 9 5 7 7 4 . 7	8 8		51 42 1 2 5 1 6 4 1	10 10 10 11 11 11 11 11 11 11 11 11 11 1	74177171171111111	3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	108 75 7 5 14 13 11 20 1 1 - 2	132 119 10 8 18 22 7 20 	235 194 17 18 32 35 18 40 1 4 2 3 3 3 13
	Madras <	857 843 186 187 1,420 1,279 444 423	Madras	1 18 1 7 - 2 - 12 15 18 27 2 9	19 5 — — — 11 8	48 46 22 18 45 40 25 22	1 23 18 5 4	92 64 24 19 106 111 32 38		28 15	1 - 2 2 2	1 1 2 - 1 2 1 2	8 - - 7 - 1	12 7 2	6 9 — 22 13 10 6	7 2 1 29 38 11	1 1 2 1 1	1	5 5 8 2	1 - 1 2 5 3	2 1 - 3 1 - 8	3 1 1 1	17 15 1 — 38 21 16 13	14 4 2 70 64 19 28	31 19 3 2 108 85 35 41
•	Total Indian Railways	6,0204 5,575		68 103 76 108	92 70	407 283	97 89	767 621	1 8	43 54	12 10	27 29	13 2	41 28	98 72	140 134	.11	2	77 58	16 20	14 12	9	221 166	278 272	499 438

⁽a) Includes Wardha Valley State Railway, Nizam's State Railway, and Berar Branch Railway.

⁽b) Includes Dubhoe Branch Railway.

TABLE No. II.—Numerical Abstract of Accidents of all Classes on all Railways open for Traffic in India during the Year 1874.

					U	NDER !	THE C	онтво	L OP 1	HB G	OVERNM)	ent of	India.						Gove:	THE C	ONTROL T OF MA	OF TIER DRAS.			ONTROL IT OF BO			M-4-1	
	Bast	Indian.	Eastert	n Bengal	Oud Bohi	e and lkund	Pu and	njab Dolhi.	Sci	nde.	Calcut South-	te and Sastern.	Null	atee.	Rajpo	otana.	Hol	kar.	Mad	ras.	Bouth	Indian.			Bombay & Centr			Total.	
	Killed.	Injured.	Killed	Injured.	Killed.	Injured.	Killed	Injured.	Killed.	Injured.	Killed.	Injured,	Killed.	Injured	Killed,	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed	Injured.	Killed.	Injured	Killed.	Injured.	Killed & Injured,
Passengers.													1			:				,		"							
From causes beyond their own control,		17						.	'n				١.		۱							. .		28		 		40	40
From other causes	ï	1	_::			_i		ï	<u></u>	<u> </u>		<u></u> -	<u> -:-</u>	ļ		<u> ··</u>		<u> </u>					<u></u>	<u> </u>	ļ	 '`-	i	48	44
Total	0,10	18 2·97	••			0.21		0.49	·			- <u>:-</u>	•	-:-	···	-:-		 	•	•	···	 		28 6·86	**	-:-	0.04	1.75	1.79
Per million of passenger miles	0.000		·		<u>::</u>	0.01	••	<u></u>	<u> </u>				4.	•••	<u></u>	<u></u>							•••			<u> </u>	<u> </u>		<u>:-</u>
From their own misconduct or in-	8	17		1	••	1	••	1	e,•		··		<u>[[</u>	9	<u></u>	••		<u></u>	1	1	••	2	<u> </u>	1	9	1 '	12	2/7	89
Per million of passengers Per million of passenger miles	1.88 0.017	2·81 0·087	::	0.018 0.60	::	0.01 0.21	::	0.40	' ::	::-	::	:: -	14.81 0.98	28 63 1 15		::	::	::	0.86 0.007	0.36 0.004	::	1.31 0.04		0.80	0.28	0128	0.40	1.10	1.20
Total from all causes	9	85		1		2	<u></u>	2	_:_	••	••	••	1	£		··	<u></u>	<u></u>	1	1	•••	2	••	24	8	1	18	70	83
SERVANTS OF COMPANIES OR OF CONTRACTORS.	7					_	. 1												•						:		,		,
From causes beyond their own control	. 1	18	٠.,	.,	1	8					•••	' ••			••		••		8	. 6	**	**	:7	12	1	8 -	18	41	54
From their own misconduct or in-	27	70	_6_	<u>B</u>	7	7	4	4	1	<u></u>		1	<u> </u>	<u></u>	8	2	1			- 7	_:-	••	22	29	10	11	98	140	288
Total from all causes -	28	83	-6	. 9	. 8	15	#	4					<u>'''</u>	<u> </u>	_ 		1		9	18			20	41	11	18 .	106	101	
OTHER PERSONS.						Ì									ŀ						-		, . <u> </u>				11	2	18
Crossing at level crossings Trespassers, including suicido Miscellaneous	8 51 7	1 10 3	ï	. * *	 5 1	ï	1	ï		::		i i	::	••	2	::			5 9		::	::	5 8	<u>2</u> 8	9	8 1	77 14	16 9	95 25
Total from all causes	68	14	1		6	1	7	1	<u></u>			1	•••	••	28			<u></u>	7	•••	1		y	6	3	5	102	27	120
Grand total of all classes from all causes	103	132	7	10	34	18	11	4	1			8	1	2	11	9-	. 1.	•••	17	14	1	. 2.	. 88	70	16	29	221	273	400
Mean longth of railway open during the year (miles) Number of passengers carried Train mileage (goods and passengers) Passenger mileage	6,03	1,504 0,276 13,019 13,709	1,6 8	156 53,893 58,655 06,924	1,978 617 92,174	721	2,05 1,42	554 18,463 29,483	79	-160 3 0x3 2,195		28 35,218 88,277 70,595		271 .870 .926 .420	695	173 i,5kg 9,971),854		36 ,554 ,676 ,493	2,778 1,920 186,749	,633	1,5 3.	126 32,216 15,714 71,845	3,352 3,969,	,217	9	341† 00.807 78.117		6,020 4,563,620 7,982,403	

[•] Includes the Nizam's, Wardha Valley, and the Berar State Railways.

[†] Includes the Dubboe Branch.

Table No. II. A .- Classified Abstract of Accidents to Servants of Companies or of Contractors on all Railways open for Traffic in India during the Year 1874.

Ì						BDER	THE C	ORTRO	T OF	гне G	OVERNA	ENT OF	INDIA	١.							TOP M.	OF THE			тог Во				
CLASSIFICATION.	East le	idian.	Eas Be	dern ngal.	Oud Robil	e and kund.	Pur and	ijab Delhi.	8ci	nde.	Calcu South-	ta and Eastern.	Null	hatee.	Rajpo	otana.	Ηol	kar.	Mad	ras.	South	Indian.	Great I Penir	Indian nsula.	Bombay & Contr	Baroda, al India.		Total.	
CARSOLETA JOB	Killed.	Infured.	Killed.	Injured	Killed.	Injured.	Killed,	Injured	Killed	Injured.	Killed.	Injured	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed	Injured	Killed.	fnjured.	Killed.	Injured.	Killed.	Injured	Killed.	Injured.	
-From Causes beyond their own Control, riz.:-			-											<u>.</u>			·	,							1 1				
(a.) Servants employed on trains in motion—		i	1							·												}							ì
1. Collisions 2. Trains running into sidings or off their proper line, through points	1	7		•••		Б		٠,	••		••			••	•-	••	••				••		2	7	••		3	19	1
being wrong 8. Trains or engines getting off rails 4. Accidents from defects in rolling	::	••	::	::	::			••	::	••	•	::		::	::	**	::	::	. 8	•	::	• • • • • • • • • • • • • • • • • • • •	::	::	::		7.2	4	
stock 5. Miscellaneous	::		::	::	::	2.	::	::	::	::	•••	::	::	::	::	•••	::	::			::	::	٠;	4	'i	::	5	Ġ	1
Total	1	7		 		7	<u> </u>				••			·					2	4			6	11	1	••	10	2:	
(b.) Servants employed in stations or on line— 1. Run over or crushed between					,																								
buffers while coupling or un- coupling carriages and wagons-	١ ا				,			.,	١	.,						١	١.,				•	١		1				١	
2. Run over white shouting trains- 8. Run over or struck while per-	::				••		::		::		7.		::	::	::	••			••	**	••	••	1	1	· · ·	••	i	ï	
forming their duties 4. Miscellaneous	::	8	::	::	1	1	::		::	::	••	::	::	::	::	::	::	::	ïi	1	::			::	::	2	1	5	ļ
Total		6			1	1				••				••		••		<u></u>	1	2	··.	:-	[1	1		2	3	12	
II.—From Incaution or Misconduct:— (a.) Servants employed on trains in motion—										İ	 								:							_ :	l I		
1. Collisions 2. Attempting to get upon, or off, or falling from engines or carriages	••	6		••	••			••		••	••	••	٠.			••			••	••	••	• • • • • • • • • • • • • • • • • • • •	8	2	••		3	9	Ì
in motion 8. Miscellaneous	4	16	ii	::	2	1	1	2	::	::	••	::	;;	::	8	::		::	:		••	::	2	10	3		20 2	. 38 9	
Total -	4	30	1		8	1	1	2		1.	1.	·	· · · ·	 	8				••	6			5	13	8	4	25	₹5	- -
(b.) Servants employed in stations or on lines— 1. Run over or crushed between		-																					!			i		! !	-
buffers while coupling or un-	4	10	1			3						1				.,	1		1		••	••	2		1	1	10	18	
2. Eun over or struck while shunt- ing trains 3. Run over or struck while in-	2	•	2	2		8		1							••	1	4.		••	l i			5	1 4	4	3	13	17	
cautiously standing or walking upon the line	14	16	1		3	1	,	1						'	1	1			5	2	••		8	5	2	i Y	Sa	32	
4. Miscellaneous	8	10	1	8	3	1	2	<u></u>	i_	_::_	-:-	<u>:-</u>	::	::	<u></u>	-:	<u></u>	_::_	••	<u> </u>	_::_	<u> </u>	<u>š</u>	8		1	10	19	- -
Grand Total	28	88	5	9	4	6	3	2	1	<u></u>		1	<u> </u>	<u> </u>	1	2	1	<u></u>		2		<u>:-</u>	17	16	7	7_	- 68	85	- -
			6	9	8	15	<u> </u>	•	1	•••	••	1	··		9	2	1	··	9	13	••	••	29	; 5 L	11	13	100	181 	_
Train mileage Number of servants employed		8.019 6.674		5,955 2, 900		7,722 3,582		9, i83 8.355		.195 .200	84	3,277 242	38	3,926 142		.971 .809		578 296	1,920	,633 ,748		.714 066	3,969	217		اً 117. أعلاني		17.06 a.4	

TABLE No. III.

Showing the Total Number of Accidents to Persons of all kinds, and to Trains, &c., on all Railways open for Traffic during the Year 1874.

							Total			Passe	ngers.		Serv	ants.		Тгезра	sers, 20.		Total.	
Under the	e Control	Mean Length of Railway open.	Total Number of Train Miles.	Train Miles per Mile open.	Passenger Mileage.	Passenger Mileaga per Mile open	Number of Accidents to Trains, &c. of	Total Number of Passengers carried.	Average Number of Passengers per Mile	- d	je j	Beyon own (d their control.	Withi own C	n their Control.	-	red.	43	red	Killed and Injured.
		opon.				· ·	all kinds.	••	open.	Killed	İnjure	Killed.	Injured	Killed.	Injured.	Killod	Injur	Killed	India	
, .	[1874	3,119 <u>}</u>	10,803,722	3,470	_	_	518	13,094,692	4,206	10	42	2	21	55	98	82	17	149	178	322
India -	1878	2,842	8,293,424	2,917	696,297,426	244,916	389	11,642,819	4,095	9	54	2	18	44,	87 *	. 62	15	117	174	291
Madras	∫ 1874	1,048	2,236,847	2,144	- 	-::	116	4,305,238	4,128	1 []	.;∌	a	. 6	6 .	7	. 8		18	16	34.
,	1878	1,030	2,323,938	2,256	172,298,967	167,281	83	4,210,602	4,088	-	1	-	-	9	8	6	2	15	6	21
Bombay	1874	†1,864	4,942,384	2,651		(- [138	7,158,695	3,838	9	25	8	14	32	40	12	10	54	89	143
	1873	1,703	4,527,843	2,659	388,118,339	227,903	149	6,509,159	-8,822	4	28	 -	10	19	44	; 11	10	. 34	92	126
Total -	[1874	6,020‡	17,982,403	2,987	-		767	24,553,620	4,079	13	70	18	41	98	140	102	27	22 l	278	499
	L 1873	5,5753	15,145,205	2,716	1,256,714,782	225,879	621	22,362,578	4,011	18	83	2	28	72	184	79	27	166	272	438

^{*} Information not received for all Railways.

† Includes the Wardha Valley State Railway, the Nizam's State Railway, and the Bernr Brunch Railways, which are worked by the Great Indian Peninsula Railway. The Dubhov Branch is also worked by the Bombay, Baroda, and Central India Railway.

CAPITAL.

- 33. The capital expenditure on railways during the year ending the 31st March last is estimated to have been 4,126,667l., of which 2,694,124l. was expended on State lines, as distinguished from guaranteed lines. Of this amount 2,207,119l. was disbursed in England, and 1,919,548l. in India. The Government expenditure in England was 1,032,224l., the Companies, 1,174,895l. In India, the Government expended 1,661,900l., and the Companies, 257,648l. The Companies began the year with a balance of 3,371,988l., and left off with one of 2,332,693l. They raised a sum of 766,748l. during the year, principally by means of debentures at 4 per cent. The amount of debenture loan has, however, been reduced from 6,945,340l. to 6,624,140l., and 200,000l. has been renewed at 4, in place of 5 per cent.
 - 34. The total amount raised by the railway companies up to the 31st March was 95,119,119*l*., and is now divisible in the following manner, viz.:—

	£	£
Share capital at 5 per cent.	81,034,395	Debenture stock 4½ per cent. 1,925,000
	1,286,596	Do. do. 4 ,, - 3,204,878
Do. do. $4\frac{1}{2}$, -	500,000	Capital not bearing interest 544,110
Debentures 5 ,, -	1,592,790	
Do. do. 4\frac{1}{2} ,, -	1,707,450	207.770.770
Do. do. 44 ,	1,292,550	£95,119,119
Do. do. 4	2,031,350	

35. The following statement shows, approximately, how the capital has been expended:—

Statement showing Distribution of Capital expended.

Railway Company.	Works and Bridges.	Permanent Way and Stations.	Freight and Insurance.	Rolling Stock and Engines.	Establish- ments.	Miscel- Iancous, Electric Telegraph, Stores, &c.
	£	£	£	£	£	£
East Indian	9,580,000	7,140,000	3,000,000	3,650,000	3,730,000	3,350,000
Great Indian Peninsula	9,474,000	7,490,000		2,872,000	1,619,000	1,477,000
Madras	3,458,000	3,836,000	 ·	1,108,000	883,000	451,000
Bombay, Baroda, and Central India -	3,248,000	2,157,000	· —	1,104,000	777,000	512,000
Scinde, Punjab, and Delhi -	2 ,082 ,0 00	8,424,000	-	1,960,000 Steamers and Barges, 377,000 Workshops,	1,029,000	790,000
South Indian	656,000	627,000	ا – ل	45,504 126,000 316,000	384,000	283,000
Eastern Bengal	2,22	8,000 	- {	Steam- boats and Flotilla	336,000	115,000
Oude and Robilkund	1,193,000	2,287,000		78,000 508,000	500,600	470,000

36. A large amount of capital still remains locked up in stores which have accumulated in India. These will by degrees be reduced, a considerable proportion being paid for out of revenue. The sums represented by them are as follows:—

	£		£
East Indian	909,561	South Indian	515,845
Great Indian Peninsula -	1,229,660	Eastern Bengal -	93,328
Madras	343,869	Oude and Rohilkund -	209,890
Bombay, Baroda, and Cen-		-	
tral India	440,138	£ 4	4,181,598
Scinde, Punjab, and Delhi	439,307	·	

37. The amount that will annually be required to obtain the necessary supplies from this country for the maintenance of the lines, after they are opened, may be roughly estimated at 600,000.

- STATEMENT- No. 1.

STATEMENT of Expenditure in England and India on Indian State Railways, appropriated to the various Undertakings as shown in Statements to 31st December 1874, received from India.

	Expend	liture approp	iated.			,	. 1	Classifica	tion of Expe	nditure.	· <u> </u>	, m			
State Railway.	England.	India.	TOTAL.	Preliminary Expenses.	Land.	Construction of Lines	Ballast and Permanent Way.	Stations and Buildings.	Electric Telegraph.	Plant.	Rolling Stock	Establish- ment,	Con- tingencies.	Suspense Accounts.	Receipts on Capital Account.
Punjab, Northern Indus Valley Hubli and Karwar Wardha Valley, Coal Holkar Neemuch Agra District, Rajpootana Delhi do. do. Western do. do. Nalhatee Calcutta and South-eastern Northern Bengal Scindia Nagpur and Chuteesghur Tirhoot Rangoon and Irrawaddy Valley Moradabad, Deobund, and Roorkee Hathras and Muthra Section, Light Provincial Railway. NARIVE STATES. Nizam's Khaingaum Branch Oomraotee Branch Mysore	£ 374,857 281,874 2,509 2,088 208,158 146,278 395,466 175,290 80,000 268,383	### 1,286,452 1,129,215 52,728 168,752 475,478 152,281 715,533 564,259 29,211 462,498 185,866 18,902 8,773 191,966 21,207 2,852 27,875 997,855 48,580 80,418 11,624	2 1,610,809 1,861,089 55,280 165,840 683,684 297,559 1,110,999 789,549 29,211 30,000 780,881 185,366 13,809 8,273 275,403 21,207 2,652 27,875	£ 24,979 60,139 8,498 3,252 20,880 16,864 8,894 2,194	14,466 7,879 61 4,140 7,225 19,987 108,507 13,419 61 289 944	9,418	175,858 152,768 77,306 117,785 12,924 899,808 321,820 155,774 1,131 131,950 479 18,987 462,303 29,923 25,259	87,271- 69,871 10,154 28,763 7,996 59,011 60,214 - 87,271- 6,066 - 11,904 299 951 56,770 4,688 4,844	8,698 1,095	£ 116,076 89,381 1,526 7,986 7,199 9,538 11,985 2,081 8,007 1,057 84 120 16,445 348 302 831	21,582 8,886 241 18,864 58,787 49,072 182,522 28,875 9,156 92,156	289,516 240,155 53,586 16,624 80,629 47,104 86,848 72,358 23,607 86,774 54,759 11,201 6,979 12,620 1,099 2,616 3,659 101,537 2,838 3,806 9,994	10,685 16,859 1,641 647 6,166 2,803 4,692 8,923 1,300 18,766 1,925 281 788 89 150 88 4,449 234 1,234 249	£ 212,120 483,079 18,410 202,018 189,270 196,903 49,674 20,704 17,939 58,366 37 20,704 10,098 1,090	2 5,465 2,350 181 2,202 189 802 1,118 484 8
Total -	2,015,797	6,521,770	8,537,567	163,649	176,712	2,851,878	2,072,570	446,457	5,181	238,486	828,885	1,208,205	75,052	1,487,189	15,597

This amount was paid to the Oude and Rohilkund Railway Company for purchase of the Line.

Note.—The total expenditure in England on State Railways to 31st December 1874 amounted to 2,787,4251. The above figures represent only that portion of such expenditure as had been appropriated in India to the several undertakings to the date of the last advices received.

STATEMENT No. 2.

Showing the Amount of Capital estimated to be required for each Undertaking as now sanctioned, the Amount authorised to be raised, the Amount raised, and the Amount withdrawn, to 31st March 1875.

	And the Angle 1971 and	_	Ame	ount author	ised to be r	aised on 31	st March	1875.	Aı	nount raise	d in Englar	nd to 31st h	Iarch 1875		Amount 1		, ر سم	Total
1	in de Haradayê di bir bir. Birwen ayên <u>ay</u> a e ya a ew ala	Estimated		Deber	ntures.		Capital			Debe	ntures.	Debentu	re Stock.		last A		Total Amount	Amount withdraw to
	Railway.	Cost of Lines.	Share Capital.	Con- vertible into Shares.	Incon- vertible.	Debenture Stock.	not bearing Interest,	Total.	Share Capital.	Convertible into Shares.	Incon- vertible.	Stock repre- sented.	Cash received.	Capital not bearing Interest.	Share Capital	Capital not bearing Interest.	raised to S1st March 1875.	31st Marc 1875 (partly estimated
2	East Indian—Main Line	£ − 27,750,000	£ 22,788,860	216,140	2,940,000	± 1,500,000	£ 160,165	£ 27,600,165	£ 22,406,530	216,140	2,940,000	£ 1,500,000	£ 1,500,000	£ 158,827	£ 826,825	£ 1,388	£ 27,549,160	27,167,50
_	,, Jubbulpore Line -	8,250,000	3,200,000		-	_	87,591	3,237,591	3,151,480	-	_	_	_	87,591	7,665	- -	3,196,736	8,454,33
'	Great Indian Peninsula - 3 -	24,000,000	20,000,000		1,304,250	3,065,300	229,602	24,599,152	19,064,125	\	1,804,250	2,701,450	2,475,559	228,860	405,047	742	23,478,583	28,084,48
	Madras	10,500,000	10,200,700	101,700	500,000	-	9,898	10,812,298	9,555,068	101,700	500,000			9,898	<u>-</u>		10,166,664	10,124,98
!	Bombay, Baroda, and Central India	8,000,000	7,411,700	183,900	200,000	_	85,887	7,880,987	7,389,518	183,900	200,000			85,887	21,672	_	7,830,477	7,888,22
	Scinde, Punjab, and Delhi -	11,000,000	11,418,900	<u>سون</u>	_	_	4,408	11,423,303	10,988,984	-	-	–	—	4,386	86,258	67	11,079,640	10,186,66
	Eastern Bengal	8,200,000	2,255,520	' —	462,850	411,808	2,288	3,131,466	2,238,996	-	52,650	411,808	874,730	2,288	16,486	. –,	2,685,150	8,084,28
1	Oude and Rohilkund	6,000,000	8,989,800	10 ,200	1,115,800	384,700	8,352	5,503,352	8,571,878	10,200	1,115,300	384,700	854,589	8,352	417,890	···	5,478,204	5,175,14
	South Indian	4,000,000	8,215,781	-	<u></u>	425,000	61,424	8,702,155	8,171,860		_	425,000	425,000	61,369	1,221	55	3,659,505	2,675,79
	Total	97,700,000	84,476,211	511,940	6,521,900	5,786,808	544,110	97,840,469	81,538,432	511,940	6,112,200	5,422,458	5,129,878	541,908	1,282,559	2,202	95,119,119	92,786,42

[•] India Office, 8th April 1875.

T. W. KRITH, Accountant.

STATEMENT No. 3.

Showing the Amount received from and withdrawn by each Company during the Year ended 31st March 1875...

	Suma				Amo	unt receive	d		ļ.	•	Amount withdrawn				· , .=
en e	standing to the Credit of the	Sums advanced to the	lst Ap		nd, between d 31st Marc		1st April 1	s, between 874 and the	1st April	d, between 1874 and rch 1875.	In	India.		Total received during the	Total withdrawn during the
Railway.	Companies on the	Companies on the				Capital	have been	n received.	On account	For	Date to which		Estimated Withdrawals	Year ended 31st March	Year ended Stat March
	31st March 1874.	31st March 1874,	Share Capital.	Deben- tures.	Deben- ture Stock.	not bearing Interest.	Share Capital.	Capital not bearing Interest.	Establish- ment	Discharge of Debentures,	Accounts have been received.	Amount.	between Dates specified and 31st March 1875.	1875.	1875.
East Indian, Main	£ 469,179	<u>£</u>	£ 700	£	<u> </u>	<u>.</u>	£	2.	£ 85,947	£ 10,000	81st January 1875	£ 7,720*	4	£ 700	£ 86,227
Line. East Indian, Jubbul- pore Line. Great Indian Penin-	— 598,709	804,520 —	48,130 	1 1	-	7,557 —	 		<u> </u>	86,000	2 3	77,233* • 125,155*	_ 	55,687 —	8,767 134,603
gula. Madras	185,209		1,596	14.			- · ·		96,815	<u>-</u>	31st December 1874	1,185*		1,596	95,180
Bombay, Baroda, and Central India.	- .	9,152	1,762	200,000		555		, , ,	94,897	111,800	31st January 1875	- 10,726*		202,817	195,911
Sciude, Punjab, and Delhi.	945,651	159,808		5.000		_{1,075} , 917 "			50,196 17,480	164,700	<i>"</i>	2,697 62,694	_	5,000	52,898 244,824
Eastern Bengal - Onde and Robilkund	189,296	109,000		5,000 500,000	_	1,281			100,167	- 4	31st December 1874	192,298	50,000	501,231	342,465
Great Southern of India,	. 1,006,022	- [<u>.</u>	4 - 1		_		-	101,732	1,000	81st July 1874† -	84,154	-	–)	4 10.
Indian Carnatic -	620,909	_	 '	•	-		<u> </u>		74,990	_	» †	16,746	 50,000	- }	648,228
South Indian	5 07				-		- '		298,528		31st December 1874	71,078			,
Total	3,844,968	472,980	52,188	705,000	-	9,560		· . –	1,174,895	878,500	_	157,648	100,000	766,748	1,806,043

^{*} Transfers of expenditure to Revenue Account, Sale proceeds of Stores, Refunds, &c. exceed by these sums the amount withdrawn in India on Capital Account during the year.

† The amalgamation of the Great Southern of India and Carnatic Railway Companies under the title of South Indian Railway Company bears date 80th June 1874, but it did not come practically into operation until the 1st August.

T. W. KEITH, Accountant.

STATE of DEBENTURE LOANS on the 31st March 1875.

		Amount.		Rate	Dute at which Loan
Rajiway.	Convertible.	Inconvertible.	Total	of Interest	
	2 8	g.			
East Indian		196,150		41	10th August 1875.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1,024,000		44	_
21	216,140		,	l - 5 l	9th August 1876.
n	11 × I	96,400 188,450	•	41	10th August 1877.
	ا	1,000,000	• •	44	22d August 1877.
,,		440,000	1	4	19th March 1878.
from Comment to St.	216,140	2,940,000	:		
	210,140	2,540,000	8,156,140	i i	•
			0,100,140	•	
Great Indian Peninsula -		1,035,450		5	31st Dec. 1876.
39 A		268,800	•	4	30th June 1878.
		1,304,250	,		•
			1,804,250		* .
Madras		*00.000		1 . 1	Tot T come
mauras -	101,700	-500,000	•	4 1/2 5	1st January 1876. 1st January 1877.
				"	tor oundary 1011.
	101,700	500,000			
			601,700		•
Bombay, Baroda, and Central Ind	ia 183,900		•	5	lst July 1876.
		200,000		4	1st January 1882.
	100.000	900.000			•
	188,900	200,000	388,900		
			000,300	li	
Eastern Bengal	- -	45,400		5	1st November 1876
,,	- -	7,250		4	1st November 1884
	-	52,650			
			52,650		•
Oude and Robilkund -	10.000	i			
onde and Romkand -	10,000			5	15th April 1875. 28th July 1876.
,, ,, ,,	- 100	_	-	5 5	18th February 1879
,, ,, ,,		615,300		4	4th June 1880.
n * 100	* -	500,000	100	4	1st August 1881.
	10,200	1,115,300	1,125,500		
€ marketine .					
			6,624,140		
1	1.5	 =		1	

India Office, 8th April 1875. T. W. KEITH, Accountant. STATEMENT OF WITHDRAWALS Out of CAPITAL for EXPENDITURE; showing the Amount withdrawn in England and in India by all the Guaranteed Indian Railway Companies during each Financial Year from the commencement to 31st March 1875.

	Year.	England.	India.	Total,
		£	£	£
	1849–50	69,211	6,682	75,893
	1850-51	61,164	- 38,099	99,263
	1851-52	154,212	197,111	351,323
	1852-53	174,920	252,640	427,560
	1853-54	252,484	418,165	670,649
	1854-55	960,878,t	- 769,278	- 1,780,156
. :	1855-56	1,935,074	1,431,337	8,366,411
	1856-57	1,752,813	1,762,287	8,515,100
	1857_58	1,328,243	2,094,825	8,423,068
	1858-59	1,941,033	3,551,075	5,492,108
	1859-60	2,508,668	4,662,796	7,171,464
	1860-61	2,388,315	5,190,400	7,578,715
	1861-62	1,597,430	5,004,782	6,602,212
	1862-63	1,852,393	4,010,951	5,863,344
	1863-64	1,415,146	3,340,507	4,755,653
٠,	1864-65	1,396,821	2,725,419	- 4,122,240.
ŧ.	1865-66	2,222,679	a: 3,414,187	- 5,686,866
	186667	3,958,357	3,339,346	7,297,708
	1867-68	3,924,490	3,195,591	7,120,081
	1868-69	1,969,814	2,512,084	4,481,898
	1869–70	2,298,680	2,444,171	4,742,851
	1870-71	1,899,054	1,877,216	3,776,270
	1871-72	886,996	-1,609,732	2,496,728
	1872–73	822,995	345,750	477,245
	1873-74	1,028,032	334,079	698,053
, . :	1874-75	1,174,895	257,648	1,432,543*
1.4	27 m & 1			
		39,974,797	58,425,600	93,400,397
	Deduct amount with-			' '
	drawn by the Cal-		W 1771	
	cutta and South-	***	georgia 1 🚅 g	■ Bara, da 2.5
	Company, this Rail-	A 4		∤
	way having subse-		t to the second	e 0
i	quently become the	0.0H 0.00	0.0000	
4	property of the State	<u> 267,362</u>	846,609	613,971
,		39,707,435	53,078,991	92,786,426

Note.—The total expenditure in India in each year as shown in the above Statement will not be found to coincide with that shown in the Indian Finance and Revenue Accounts, owing to the fact that the transfers of expenditure to Revenue Account can only be made in the books in this country on receipt of advices from India, and are consequently brought to account some months later than in the Indian books.

India Office. 8th April 1875. T. W. KEITH, Accountant.

REVENUE.

38. The revenue derived from the railways during the year 1874 was 770,856l. in excess of the previous year. The gross receipts amounted to 7,760,760l., being 1,021,845l. in excess of the previous year. The expenses were 3,804,689l. as compared with 3,553,703l. The net revenue was accordingly 3,956,071l.

39. The amount paid for guaranteed interest during the year 1874-75 was 4,694,3551., towards which the guaranteed lines contributed 3,562,0001., leaving 1,132,355l. as a charge upon the revenues of the year. A sum of 752,705l. was realised, in excess of the guaranteed interest advanced to them, by the East Indian, the Eastern Bengal, and the Bombay and Baroda railways. Half this amount was, under the terms of the contract, paid back to the companies for distribution amongst the shareholders. The East Indian received 365,5101. 10s., the Eastern Bengal, 8,4801. 10s., and the Bombay, Baroda, and Central India, 2,3611. 10s. from this source.

^{*} These amounts are partly estimated.
† Transfers of expenditure to Revenue Account, Sale proceeds of Stores, Refunds, &c., exceed by these sums the amount withdrawn in India on Capital Account.

40. The following statement shows the amount of surplus profits earned by guaranteed railways from 1870 to 1874 inclusive:—

Railway Company.	Half year to 30th June 1870.	Half year to 30th June 1871.	Half year to 30th June 1872.	Half year to 30th June 1873.	Haif year to 31st Dec. 1873.	Half year to 30th June 1874.	Half year to 31st Dec. 1874.	Total.
East Indian, Main Line " Jubbulpore Line Bombay, Buroda, and Central India Eastern Bengal	£ 180,095	£ 109,255 —	£ 150,695 5,864	£ 167,753	£ 104,688 — 8,411	£ 641,832 11,238 4,723 7,810	£ 77,951 — 9,151	£ 1,382,269 11,288 10,587 25,372
Total	130,095	109,255	156,559	167,753	113,099	665,603	87,102	1,429,466

24th June 1875.

E. R. CAVE-BROWNE.

e 1875. 41. The annual payments on account of guaranteed interest, and the amount paid in reduction of the same, during the last five official (not calendar) years have been as follows, viz.:—

	4 7 7	Financial Year.	Guara	nteed Interest.	Net Traffic Receipts less half surplus profits.	Net Charge.	1
' 1"			15.	£	£	£	
ļ		1869-70	4	176,008	2,628,944	1,547,064	'
		1870-71	4	391,592	2,556,781	1,834,811	1 .
;	:	1871-72	4	,592,166	2,868,948	1,723,218	
<u>.</u>		. 1872-73	4	,658,401	2,547,900	2,110,501	- .
- 1	-:]	1873-74	4 4	,667,906	3,230,554	1,437,352	- 1
	4° (1	187475 partly esti- mated.		,694,355	3,562,000	1,132,355	

42. The improvement which took place in the revenue of the railways during the past year is due principally to the large traffic in grain for the famine-stricken districts of Bengal. The Great Indian Peninsula and the Bombay and Baroda, which did not directly participate in this traffic, also show an advance, but the trade of the country still continues depressed, and the business of the railways is of course injuriously affected thereby.

43. Both exports and imports diminished in the year 1873-74. The cotton trade, especially during the last few years, has fallen off considerably, and this tells very much against the Bombay lines. The cotton exported to England amounted in-

1863-4 to 4,522,526 cwts., of the value of 38,215,145l. 1868-9 to 4,284,334 cwts., ,, 18,342,8871, 9,625,626*l*. 1873-4 to 3,280,877 cwts., **32** 39

The value of all imports and exports in the same years from Bombay were as follows:—

£ £ £ £ 68,976,133 1868-9 24,128,314 23,770,307 47,898,621		Imports.	Exports.	Total.
1868-9 24,128,314 23,770,307 47,898,621	1863-4	£ 30,407,409	£ 38,568,724	£ 68,976,133
	1868–9		23,770,307	47,898,621
1873-4- 11,008,200 20,011,012 02,003,000	1873-4	11,663,266	20,871,314	32,534,580

Taking the whole of India, the value of imports and exports were—

	Imports.	Exports.	Total.	
1863-4	£ 50,108,171	£ 66,895,884	£ 117,004,055	
1868–9	51,146,095	54,457,744	105,603,839	
 1873-4	38,386,142	56,874,849	* 95,260,991	•

STATEMENT showing the REVENUE from the Indian Railways in 1873 and 1874, as given in the Accounts passed by Government.

Itailway.		Rece	ipts.			Expenditure.		Per-centage of Expenditure	Net Receipts.
	Passengers.	Goods.	Miscellaneous.	Total.	Maintenance.	Working, &c.	Total.	to Gross Receipts,	Net Receipts.
	£	£	£	£	£	£	£		2
East Indian, Maio Line - 1874	749,416	2,350,949	94,281	3,187,646	203,421	922,804	1,125,725	85	2,061,921
,, , - 1878	749,043	1,735,355	94,516	2,579,114	200,090	769,935	969,425	88	1,609,689
" Jubbulpore Line 1874	68,696	- 181,146	85,195	235,037	16,889	83,192	100.081	48	184,956
,, 1873	66,945	89,779	21,319	178,036	21,784	79,602	101,386	57	76,650
Grest Indian Peninsula - 1874	488,544	1,369,990	40,013	1,848,547	193,996	899,824	1,098,820	59	754,728
• " - 1873	498,277	1,203,413	26,330	1,728,020	195,931	911,506	1,107,487	64	620,583
Madras 1874	226,369	295,011	20,049	541,439	112,126	237,998	850,124	64	191,805
,, 1878	231,249	380,525	19,200	630,974	131,355	227,921	359,276	57	271,698
Bombay, Baroda, and Central				4-1514		**/,5%*	309,270	",	
India 1874	203,382	804,580	29,059	587,021	49,840	230,538	279,878	. 59	- 257,148
1873	208,899	288 534	14.965	512,398	84,984	218,519	303,503	59	208.895
Scinde, Punjab, and Delhi 1874	199,274	862,194	120,782	682,250	70,792	345,015	415,807	60	266,448
Schide, I digate, and Delin 1674	198,790	270,060	18,453	487,303 -	67,102	267,528	354,630	69	152,673
Indus Steam Flotilla 1874	. , , , , , , , , , , , , , , , , , , ,	. 2,0,000 : }	10000	407,000	07,7UE	207,028	334,030	9	102,070
1873	5,592	65,481	92	71,115	21.484	45,079	66,563	94	4,552
Great Southern of India for 1st	-,-,-	1.	_ :	,,,	~1,404	40,079	00,000	74	4,000
haif of 1874	21,560	17,770	1,156	40,486	5,302	20,602	25,904	64	14,582
Carnatic for 1st half of - 1874	1,858	213	28	2,099	244	647	25,504 891	48	1,207.
South Indian (being an amal-	-,000	""]		2,000	279	j ,,,,	891	- 40	1,201.
gamation of the two marked*)			1				1		
for 2nd half of 1874	26,011.	19,078	1,227	46,311	5,595	21,664	67.050	59	19,05L
Great Southern and Carnatic for	20,011.	19/010	1,541	40,011	0,000	21,00%	27,259	99	19,091
	59 105	49,596	8,255	106,047	11 104	43.001	70,000	· •	E9 01 T
J	53,195				11,104	41,981	58,038	58	- 58,01 1
Eastern Bengal 1874	99,033	211,519	55,379	365,981	89,308	158,907	198,210	54	167,721
- 1873	<i>♦ 107,393</i>	154,793	52,741	314,867	28.711	132,248	160,959	51	158,909
Oude and Robilkund - 1874	109,288	87,988	3,186	200,402	80,408	98,675	129,083	64	71,320
,, ,, 1878	, 63,249	47,192	1,949	119,390 :	18,826	63,120	81,946	78	80,444
Totals for Guaranteed Railways							_		
1874	2,186,426	5,150,378	400,355	7.687.159	727.416	8,019,866	- 5,746,782	48	8,940,377
1873	2,182,632	4,284,818	252,613	6,720,263	781,371	2,756,789	3,588,160	52	8,182,105
STATE.						-,,		± 77	
Calcutta and South-eastern 1874	5,809	2,481	1,890	C 0.000	2 0 10			78	1.075
1873	5,416			9,120	1,645	5,500	7,145		1,975
Nulhuttee 1874	4,830	3,672	1,120	10,207 -	3,271	7,198	10,469	103	[Loss 261
Numurae 1874 1873	5,684	2,886	187	7,808	1,135	4,110	5,245	67	2,558
Rajpootana (Agra District) 1874	11,269	2,607	154	8,445	1,099	3,973	5,072	60	9,373
(5) (1) (1)	11,269 9,674	. 19,231	637	81,337	8,909	16,220	25,129	80	6,208
" (Delm District) 1874	3,074	11,776	3,891	25,341 -	4,866	15,522	20,388	80	4,958
Totals for State Railways - 1874	31,082	86,324	€,195	78,601	16,555	41,852	57,907		15,694
1673	11,100	6,279	1,273	18,652	4,969	11,171	15,540	• [8,112
								= ====== =	
Grand Total for all Railways 1874	2,167,508	6,186,702	406,550	7,760,760	743,971	8,060,715	8,804,689	49	8,956,071
1873	2, 193,732	4,291,096 [254,087	6,738,915 (785,740 .	2,767,960	8,558,700	<i>6</i> 3	3,185,215

[†] Including steam-boat service.

GUARANTEED INTEREST.

44. The sums advanced by Government for guaranteed interest to the different companies during the year amounted, as will be seen by the statement below, to 4,641,705l., compared with 4,613,511l. of the previous year, and the whole amount advanced since the commencement of operations was increased from 47,632,471l. to \$2,274,176l. These sums are the gross amounts advanced by Government, without reference to the earnings which go in reduction of them. When they are taken into consideration, the net amount advanced, as shown in the table on page 30, is 24,269,199l., which is again subject to reduction by future half surplus profits.

45. The following figures give the proportionate repayment by each company, out of their earnings, of the sums advanced for guaranteed interest. The guaranteed interest, it may be observed, begins as soon as the money is paid into the Government Treasury, and in many cases for years before the railways are opened and in a condition to return anything.

the state of the s			Proportion per cent. of guaranteed interest returned.
East Indian, Main line	•		- 7 7·8 7
East Indian, Jubbulpore	-	-	- 21.13
Great Indian Peninsula	-	-	- 51.50
Madras	-	-	- 44 ·99
Bombay, Baroda, and Centr	al India	-	- 4 0·81
Scinde, Punjab, and Delhi	-	-	- 14·4 3
Eastern Bengal -	-	•	- 65.17

GUARANTEED INTEREST .- INDIAN RAILWAYS.

STATEMENT of the Total Amount of Interest advanced to each of the under-mentioned Railway Companies to the 31st December 1874.

	, 														
Railway	y Company.	Interest adv				Inter	rest advan	ced	darir	ng 1874.			Total		
· •	a district	31st Decemb	er 1675	Engle	.ban		Inc	dia,		Total	al.		<u> </u>		<u>.</u>
	stanting of the second	£	s. d	£	s.	d.	£	8.	d.	£	8.	d.	£	ε.	d.
East India	n, Main Line	17,165,655	4 9	1,330,032	12	10	11,449	3	5	1,341,481	16	3	18,507,137	1	0
Line	Jubbulpore	1,561,076	9 (157,256	7	7	383	5	0	157,639	12	7	1,718,716	1	7
Great Ind	ian Peninsula	11,292,411	1 4	1,128,612	19	0	15,428	3	0	1,144,041	2	0	12,436,452	3	4
Madras		6,879,011	16 10	500,228	13	1	-	_		500,228	13	1	6,379,240	9	11
Bombay, Central	Baroda, and India	3,922,396	15 9	384,755	6	2	266	9	1	385,021	15	3	4,307,418	11	0
Scinde, P	unjab, & Dellii	4,715,922	8 0	550,528	9	9	2,740	6	10	553,268	16	7	5,269,191	4	7
Eastern B	engal	1,337,077	19 6	138,730	6	7	1,177	12	0	139,907	18	7	1,476,985	18	1
Oude and	Robilkund -	753,611	14 8	237,818	14	2	5,184	5	10	243,003	0	0	996,614	14	8
	Great Southern of India		10 . 2	138,660	8		} -	_		177,112	9	8	1,182,419	13	8
	Camatie - 🦠 📥	·		į.											
T o	tal £	47,632,470	13 10	4,605,075	18	10	36,629	5	2	4,641,705	4	0	52,274,175	17	10

^{*} The amalgamation of the Great Southern of India and Carnatic Railway Companies under the title of the South Indian Railway Company bears date 30th June 1874, but it did not come practically into operation until the 1st August.

India Office, 8th April 1875.

T. W. Keith, Accountant.

A STATEMENT showing approximately the Amounts advanced on account of GUARANTEED INTEREST to the several under-mentioned Railway Companies to the 30th June 1874, beyond the amount of Net Revenue applied thereto.

Railway Company.		Total Amount advanted to 31st December 1874.*	Aggregate of Net Revenue Balances for the several half-years to 80th June 1874, inclusive.	Net Amount advanced.
			1992 (
East Indian, Main Line	_	18,507,137	14,413,517.	4,093,620
Jubbulpore Line -	_	1,718,716	363,238	1,355,478
Great Indian Peninsula -	-	12,436,452	6,404,846	6,031,606
Madras	-	6,379,240	2,870,264	3,508,976
Bombay, Baroda, and Central India	4	4,307,419	1,758,112	2,549,307
Scinde, Punjab, and Delhi	· 🙀	5,269,191	760,698	4,508,493
Eastern Bengal	-	1,476,986 i.	962,638	514,348
Oude and Rohilkund	-	996,615	110,878	885,737
†South Indian { Great Southern of In	ıdia -	} 1,182,420	- ₹ ¹³ 860,786	821,634
Total -	•	£ 52,274,176	28,004,977	24,269,199

46. The following statement, which shows the results of calculations made by desire of your Lordship, is of sufficient general interest to be introduced here:-

1. The total withdrawals by guaranteed railway companies from the commencement of operations to the 30th June 1874 on capital account were - £91,750,803

2. The amount of debt that it would probably have been necessary to incur in order to meet such expenditure, had the companies not existed, and the interest that would have been paid thereon, the shore of people on done is not in the language of the control of the

, *				1.3.0	Principal.	Interest.
يعدا عاد					<u>£</u>	<u></u>
					10,783,700 -	- 8,510,192
India	debenture	s -			9,699,500	7,014,500
· .	11 · · · · · · ·	÷	. . ,	s art s	3 ,227,500 -	2,097,875
India	5 per cen	t. stock	and the second of the second o		3,227,500 - 42,289,100 -	23,050,033
India	4 per cen	t. stock		-,	25,520,100 -	- 4,890,428
				1 11 19 1	91,519,900	45,563,028

3. The total amount of capital that has been raised by the several companies, and the interest paid thereon by the Indian Government.

	•	•		z ranopa,	
	and the state of the part		$G \to I$	enen 🛖 i i	HARLIN E
· O	East Indian, Main li	ne -	1 61	27,558,640	17,833,191
	" " Juppul	pore line		- 3,227,049	1,643,715
	Madras -		} _	- 10.166.166	- 6,129,111
Ιi	Great Indian Penins		, 🙀 👙	23,478,583	11,864,432
	Scinde, Punjab, and	Delhi -	-	- 11.079.423	4,992,823
3	- 💷 - Bombay, Baroda, an	d Central India	a. 🖴 🖖 ၂	7,740,594	4,114,804
	Eastern Bengal	-	_	- 2.844.850	1,407,060
, ,	Great Southern of I	ndia 🗀 🗀	_ `	- 2,868,208	1,407,060 954,970
. ;	Oude and Rohilkung	1 , , , , ,	÷ .;	4,971,973	- 873,2 73
	Carnatic -	-	-	- 791,242	138,894
			.,	94,726,728	49,952,273

India Office, 11th December 1874.

T. W., KEITH, Accountant.

47. The "withdrawals" in the first paragraph are the sums paid to the railway companies for capital expenditure out of the money previously paid by them into the Government Treasury. The difference between the 91,750,803l. in the first paragraph and 94,726,728l. in the third is the balance to the credit of the companies. The difference in the two amounts of interest (45,563,028l. and 49,952,2731.) may be accounted for, to a considerable extent, by the large balances which the companies have been expected to keep. If the interest were to be calculated upon the amounts withdrawn, and from the dates of withdrawal, the sum for interest in the latter statement would be much less.

^{*} The Interest for the half-year to 30th June 1874 not being paid until the succeeding half-year.
† The Great Southern of India and Carnatic Railway Companies were amalgamated on the 30th June 1874, under the le of South Indian Railway Company.

India Office, 8th April 1875.

T. W. Keith, Accountant.

TRAFFIC AND WORKING. 10 10 10 11 15 22 1. ST

48. The statements which follow, and which are compiled from returns prepared Traffic. in India for this report, furnish full particulars of the traffic and working of each separate undertaking, and enable comparisons to be drawn of the results. The following are the general conclusions:

49. The total number of passengers of all classes carried in 1874 was 24,280,459, Passengers. compared with 23,557,605 of the year 1873. Of the former number, 23,556,218, or 97.01 per cent., consisted of the lowest classes; 543,800, or 2.21 per cent., of the second; and 180,440, or 78 per cent., of the first class. The receipts from passengers (including 105,8231. for troops, and 199,9581. for excess luggage, carriages, horses, &c., and excluding 7,148l. for mail service) were 2,183,015l., of which 106,198l., or 4.81 per cent., was received from the first, 102,990l., or 4.70 per cent., from the second, and 1,650,110*l*., or 75.58 per cent., from the lowest classes. The total receipts from passengers, compared with last year, were

3,440*l*. Iess.

50. On some of the lines the decrease was considerable, and on others there was not much difference. On the Great Indian Peninsula, for instance, the numbers fell off by 193,000, and the receipts diminished 59,7001. On the East Indian, the Scinde, Punjab, and Delhi, and on the Madras, the passenger traffic was nearly stagnant. The numbers only increased in the cases of those lines where the rates Fares. had been reduced. The Bombay, Baroda, and Central India Railway, on which a reduction of third-class fares had been made, carried 589,000 more than in the preceding year, and on the South Indian where the 2 pie rate has also been tried, there has been a gradual increase since 1872. A reduction in rates is naturally accompanied at first by a falling off in receipts, but if the reduction has been judiciously made and the management is good, a recovery may be expected in due

51. The South Indian Railway furnishes an example in point. When the thirdclass rate was reduced to 2 pie or $\frac{1}{4}d$. a mile, the number of passengers increased from 707,918 in the year ending 30th June 1872 to 1,197,539 in 1873, and to 1,257,400 in 1874. The mileage increased, in the same period, from 27,902,695 to 43,999,394. The receipts in 1872 were Rs. 357,136, in 1873 Rs. 354,358, and in 1874 Rs. 367,738. Thus, while there was an increase in numbers of 71 per cent., there was an increase in receipts of only 3 per cent., and in the year next to that in which the reduction was made there was a decrease of 0.8 per cent. This result, while it is apt to produce feelings of disappointment, by no means indicates failure. It proves that the poorer classes in India will use the railway when brought within their means, and that they will travel considerable distances when proper facilities and encouragement are offered. Evidence of this is given by the average distance now travelled by third-class passengers. It comes to about 30 miles per passenger, and seems to point out that the rates are still too high to offer attractions for short journeys. Where the distance can be traversed on foot and where country carts can be used, the railway is avoided so long as time is not an object. There can be no doubt, however, that to give low fares a proper chance the strictest economy must be observed. The increased expense consequent on the conveyance of the larger number above mentioned probably more than covered the small increase in receipts. As one important step in the direction of economy, a watchful eye should be kept on the train mileage and the train loads. If more trains are run than are required, and more vehicles are run in each train than are necessary for the work to be done, great wasteage necessarily follows. ment made of the passenger traffic on the Great Indian Peninsula and the Bombay and Baroda railways, it would appear that the average number of seats provided and used in each train was as follows:-

Hit je gringster som und Hit je store	Seats p	provided.	Seats used.			
naide de la companie	G. I. P.	B. B. and C. I.	G. L.P.	B. B. and C. I.		
lst class		32	3 • 25	2.78		
2nd class		80-36	15:73	11.03		
11 Las Inc. 3rd class.	292-5	596-7	138.5	253 · 8		

52. It is difficult, of course, on lines where the up and down traffic is unequal, to avoid a certain amount of unprofitable train load, but this is seldom the case with regard to passengers, and the greater the difficulty the more necessity for careful management. The above figures show a disproportionate amount of unpaying

dead weight.

Goods.

53. The general merchandise carried amounted to 4,663,016 tons, exclusive of 33,608 conveyed by the Indus Flotilla, compared with 3,266,062 of the previous year. The minerals were 687,450 tons, compared with 671,004 of 1273. Thirty-nine per cent. of the whole quantity, viz., 2,137,981, was conveyed on the main line of the East Indian Railway. While there was a falling off in the general traffic of the country, there was an increase on the East Indian of 711,068, and on the Punjab and Delhi of 130,564 tons, due, of course, to the large demands for grain in the districts where scarcity prevailed.

54. The receipts from goods increased by 981,603l. from 4,292,005l. in 1873 to 5,273,608l. in 1874. The East Indian Railway alone earned 656,761l. more than the previous year, and the Punjab and Delhi 291,407l. The Great Indian Peninsula shows an increase of 166,578l., but the Madras, on the other hand, a decrease

of 86,378l.

55. The number of miles travelled by trains during the year was 18,475,322, compared with 15,650,597 of the previous year, and the ton mileage (signifying the number of tons moved one mile) was 1,102,956,185 against 802,704,329. The same observations as to the necessity of keeping up the train loads applies with

even greater force to the goods traffic.

Expenses.

56. The expenses of maintenance and working amounted to 3,682,601*l.*, exclusive of 73,646*l*. for the Flotilla, being at the rate of 3.98s. per train mile, compared with 4.46s. of the year 1873. The receipts per train mile came to 8.39s. A comparison of the charges in the different departments of the various railways, as given in Table IV., will show how the expenses vary, and where a more economical management is needed. But the amount of work done and the cost of doing it can best be ascertained through the passenger and ton mileage, *i.e.*, the number of passengers and the amount of goods respectively carried one mile and the cost thereof. This will be found given for six of the more important railways in the tables (pages 34 and 35), which have been prepared by Mr. A. M. Rendel on the same basis as those which were compiled by him for previous reports. The test is not an infallible one, but the nearest to absolute accuracy, and when it is obtained it furnishes a guide for economical management, and for the application of fixed

principles to the regulation of charges.

57. A marked difference will be observed in the expenses. The work done, for instance, by the Great Indian Peninsula Railway last year was less than half that of the East Indian, and yet the cost was nearly the same. In other words, the expenses of the Great Indian Peninsula were, proportionately, twice as much as the East Indian. The position of the lines is, no doubt, different as regards the supply of fuel, the cost of the East Indian being 2.26d., and that of the Great Indian Peninsula 10d. per train mile, but this will not account for the contrast in the expenditure of the two. Nor is it explained by the difference in the proportion of "up" and "down" traffic, although this likewise is in favour of the East Indian, which has 47 of the one and 53 of the other, against 57 and 43 of the Great Indian. The true explanation will be found in the two items before mentioned, viz., the train loads and the train miles. The form in which Mr. Rendel has reduced the statistics of the year enables the case to be clearly exemplified. It will thus be seen that while on the East Indian Railway the average number of passengers in each train was 223, and on the Bombay, Baroda, and Central India 285, on the Great Indian Peninsula it was 173, and on the Scinde only 125; that the average goods' train loads of the Eastern Bengal, East Indian, and the Bombay, Baroda, and Central India were 168, 120, and 92 tons respectively, of the Great Indian Peninsula and Madras 82 and 481 tons; that the average cost of running a train one mile was, on the East Indian 2s. $9\frac{5}{8}d$., on the Great Indian Peninsula 5s. $2\frac{1}{2}d$., on the Bombay, Baroda, and Central India 5s. 3d., and on the Scinde 7s.; that the average cost of carrying a passenger and a ton of merchandise one mile respectively on the East Indian was 151d. and 279d., on the Great Indian Peninsula · 36d. and · 762d. (more than twice as much), on the Bombay, Baroda, and Central India · 221d. and · 685d.

58. On the Madras line, which is in the same position as regards coal as the Great Indian Peninsula, the cost of fuel per train mile was only 3:08d., and that

of producing locomotive power was 14.79d. per train mile, while on the latter it was 23.53d. This may in some measure be explained by the more plentiful supply of wood for fuel on the Madras line; but in another department a comparison brings the same result. The repairs and renewals of rolling stock on the Madras amounted to 2.90d., and on the Great Indian to 7.40d., per train mile. Special or accidental circumstances may possibly account for this variance, but it is

sufficient to call for careful investigation and renewed exertions.

59. The relations between the people and the railways, it may be observed, are very different in India to what they are in this country. In India the tax-payer takes the risk and pays the dividend. In return for this he has a right to expect the best and most economical management and all reasonable and proper accommodation. In fulfilling these obligations the companies would be serving their own interests. The returns show that the success of the undertakings depends upon the receipts taken from the mass of the people and for conveying the staple commodities of the country. It is very important to develop this description of traffic, and to suit the charges to the wants and capabilities of the country. It will be seen by Mr. Rendel's table that the most prosperous line, viz., the East Indian, is that which has the lowest average goods rate. Through the inducement of low fares, accompanied by regularity, safety, and comfort, trains may be run nearly, instead of half, full, and a paying traffic may be brought to a line. The revenue also may be further improved by care, economy, and energetic management; for reduction in expenditure helps as much as receipts to increase profits.

Particulars relating to the Traffic of the Guaranteed Railways named below for the year 1874, based on their Revenue Accounts, and prepared on the Basis of those printed as Appendices to the yearly Reports for 1872 and 1873, by Mr. A. M. Rendel, Consulting Engineer for State Railways to the Secretary of State in Council, and to the East Indian Railway Company.

60. "The sums given as working expenses are arrived at by deducting from the gross expenses given in the revenue accounts all receipts from miscellaneous sources, from private telegraph messages, and from demurrage. The miscellaneous receipts in many cases would, if properly treated in the revenue accounts, appear as credits to working expenses, and not as receipts to the credit of revenue, and the method adopted in the particulars here given is very nearly strictly correct.

The principle however is somewhat strained for the year 1874, in consequence of the East Indian Railway main line having been compelled by the famine traffic to borrow rolling stock very largely from the Jubbulpore line, the Punjab and Delhi, and the Bombay and Baroda, for which it paid what are really demurage and not hiring rates. The East Indian main line expenses have therefore been somewhat largely abnormally increased, whilst those of the other lines named have been correspondingly decreased.

"Telegraph and demurrage receipts do not amount to much, and they are deducted from working expenses, in order to leave on the revenue side receipts for the transport of goods and passengers by rail only, and at the same time to bring

into account all other sources of revenue.

"Steam ferry profits are deducted from the East Indian Railway expenses.

They form a very small fraction of the whole receipts of the line.

"In the case of the Scinde and Eastern Bengal lines, steamboat receipts and expenses, which form a considerable part of the whole of each, are left out of the account, but in the case of the Scinde, a portion of the general expenses, proportional to the steamboat receipts, have been deducted as belonging to the steamboat expenses.

"Neither payments to, or receipts from, special or reserve funds have been taken into account, the actual expenditure only of the year having been considered in

all cases.

"In the case of the Scinde, Punjab, and Delhi, the returns, as sent home, of the average number of carriages and wagons per train (30 of each) are probably erroneous in regard to carriages. The Eastern Bengal returns, as sent home, are clearly wrong in regard to the division of mixed mileage between passengers and goods. They are here divided on the principle that 22 passenger vehicles are equal to 33 goods, taking the numbers of each as given in the returns, viz., 4 passenger and 25 goods vehicles per train.

"In determining the passenger mileage, the traffic in luggage, parcels, horses, &c., is converted into passenger mileage at the average rate obtained for carrying

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passengers only. It must be understood therefore, that from 10 to 12 per cent. of the passenger train loads represent the general items other than passengers usually included in 'coaching' traffic. Live stock is similarly treated in the case of goods ton mileage, but forms an extremely small item in it.

(a) Passenger Traffic.

	East India	n Railway.			Bombay,	Scinde, I	Punjab, and elhi.	7
er en general en en en en en en en en en en en en en	Main.	Jubbulpore.	Great Indian Peninsula.	Madras.	Baroda, and Central India.	Scinde.	Punjah and Delhi.	Rastern Bengal.
Average length open, miles	No. 1,280 £	No. 2251 E	No. 1,2663	No. 858 £	No. 424 £	No. 110 £	No. 553} £	No. 1581 £
(1.) Receipts from passenger traffic.		68,695	438,544	226,369	208,383	11,478	187,796	99,020
(3.) Passenger train miles run	No. 2,138,599	No. 280,876	No. 1,467,561	No. 716,558	No. 483,605	No. 47,819	No. 627,386	No. 216,810
(S.) Average passenger train mile	5. d. 5 11	5 11)	5. d. 5 112	8 d. 6 si	8 d.	s. d.	8 d.	8. d.
receipts. (4.) Number of passengers carried one mile.	No. 476,414,400	No. 41,634,000	No. 254,228,546	No. 158,856,000	No. 187,490,000	No. 5,991,435	No. 120,188,800	No. 61,572,000
(5.) Average sum received for carrying a passenger one mile,	-874	396	d. 	4. 849	<i>₫.</i> •355	. d. •46	d. 875	d. -886
(6.) Average number of passengers in a train at one time.	No. 223	No. 180	No. 178	No. 221'7	No. 285	No. 125	No. 101.5	No. 284
(7.) Average number of passenger trains per diem each way, supposing each train		No. 1'41	No. 1.59	No. 1 14	No. 1 56	No. 595	No. 1.56	No. 1.88
to braveres the whole line open. (8.) Average number of passengers passing over each mile of line daily (both	No. 1.080	No. 509	No. 550	No. 507	No. 888	No. 149	No. 594	No. 1,007
mile of line daily (both ways). (9.) Number of passenger vehicle run one mile.	No	No. 2,855,680	No. 20,071,392	No. 5,189,691	No. 4234,630	No. 1.484.880	No. 18,821,580	No. 8,949,£10
(10.) Average number of passenger vehicles in a passenger train.	\$ 141	No. 12.87	No. 13·7	No. 7·17	No. 8 8	No. 80 ?	No. 30 P	No. 11.8
(11.) Average number of passengers in each vehicle.	No. 14'4 d.	No. 14.5	No. 12 66	No. 30°9	No. 82·5	No. 4'17 d.	No. 6 4	No. 24 d.
(12.) Average carnings of each vehicle per mile.		578	, 5°25	10.22	<i>d.</i> 11⁺5	1.58	2°e	9.28
(13.) Total working expenses for both goods and passengers deducting special and mis- cellaneous receipts from		65,847	1,020,398	8 329,471	8 267,707	68,491	228,600	£ 158,804
them. (14.) Average cost of running a train mile, passenger and goods miles assumed to cost	e. d. 3 9	s. d. / 3 83	s. d.	8 d	8 d	7 0	8 62	a. d.
(15.) Average cost of carrying a passenger vehicle with its load one mile.	d. 2°18	d. 2.2	d. 4 55	d. 5 73	7:102-	2.812	d '1'875	đ. 5.68
(16.) Average cost of carrying a passenger one mile.	. £161 .	7151	. 26	d. 185	231	d. 1875	d. 1215	-238

(b.) Goods Traffic. The street of the product of the

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Average length open, miles	No. 1,280	No. :	No. ;	No. 868	No.	No. 110	No. 5534	No. 1581
(1.) Receipts from goods traffic -	2,850,949 No.	181 146 No.	1,369,033 No.	294,409 No.	804,288 No.	£ 61,078	£ 800,450	211.035 No.
(2.) Goods train miles run	5,192,069	848,879	2,457,098	1,208,915	490,501	No. 104,317	No. 702,096	809,074
(3.) Average goods train mile re-	9 04	8. d. 7 61	i d.	8. d.	8. d. 12 8	11 84	8 64 ··	18 74
(4.) Tons of goods carried one	Tons. 625,524,000	Tons. 32,381,000	Tons. 201,576,000	Tonu. 58,637,472	Tons. 46,025,648	Tons, 10,303,400	Tons. 69,330,000	Tons, 48,420,000
mile. (5.) Average sum received for	ર્થ. 902	<i>d.</i> 972	d. 163	d. 1.205	d. 1.586	1 423	1'04	d 1'195
carrying one fon one mile. (6.) Average number of tons in a	Tons. 120 5	Tons. 92.75	Tons	Tons. 48 5	Tons.	Tons.	Torus.	Tons. 187
goods train at one time.	No.	No.	No.	No.	No.	98 75 No.	No.	No.
(7.) Average number of goods trains per diem each way,	5.666	2.18	3 66	1'98	1.61	1.8	178	2 67
supposing each train to run over the whole line				,	1277.5)
(8.) Average number of tons of	Tone. 1,836	Tons.	Tons. 487	Tons.	Tons,	Tons.	Tons.	Топв.
goods passing over each mile of line daily (both ways).					201	2.00	25 3	
(9.) Number of goods vehicles	No. 146,187,011.	No. 8,511,755	No. 58,244,889	No. 18,775,190	No. 15,863,633	No. 3,129,510	No. 21,062,880	No. 9,332,29
(10.) Average number of goods	No. 28'15	No. 24-4	No. 23.7	No 11 4	No. 30 75	No.	No. 80	No.
vehicles in a goods train. (11.) Average number of tons in each goods vehicle.	Tons. 4:28	Tone.	Tons.	Tons.	Tons,	Tons. 3.29	Tons.	Tons.

i	(B)	Goods	Traffic-continued
•	· · · · · ·	COOL	IIIIIIC-COMMUNICA

Strainger to

t desalte adeles te en la Marchine	Last India	n Railway.	Great Indian		Bombay,	Scinde, 1		
All Mary Designation of	Main.	Jubbulpore.	Peninsula.	Madras.	Baroda, and Central India.	Sciude.	Punjah and Doihi,	Bastori Bongal
(12.) Average earnings of each vehicle per mile. (13.) Total working expenses for both goods and passengers, deducting from them special and misoullaneous re-	3.88 2 1,427,920	d. 3 69 £ 68,847	d. 5·04 £ 1,020,898	d. 5 13 £ 329,471	d. 4·75 £ 267,767	d. 4.68 £ 58,491	d. 3·424 £ 228,500	d. 5·5 2 153,804
capts. (14:) Average cost per train mile, goods and passenger miles assumed to cost the same. (15.) Average cost of carrying 6	s. d. 2 94 d. 1 195	s. d. 2 31	s. d. 5 23 d.	e. d. 3 5 d. 3 6	a. d. 5 8 d.	s. d. 7 0 d.	. d. 3 51	a. d. 5 7
goods vehicle with its load one mile. (16.) Average cost of carrying a ton of goods one mile.	d. 279	1·126* d. 294	2·64 d. ·762	'd'. '846	2:08 d. 685	2·813	1'875 d. '415	2.28 d. '496

train loads were obtained on the Bombay and Baroda and on the Eastern Bengal, amounting to 285 and 284 persons respectively; the lowest on the Scinde, amounting to 125 only; and that the highest average goods train loads were obtained on the Eastern Bengal, amounting to 137 tons; the lowest, on the Madras, amounting to $48\frac{1}{2}$ tons only.

The lowest train mile cost (omitting the Jubbulpore branch of the East Indian, which is so much affected by receipts from the main line for wagon hire that it had better be left out of account) is found on the East Indian main line, where it amounted to 2s. $9\frac{5}{8}d$.; the highest is found on the Scinde, where it reached 7s.

"The costs of carrying a passenger and a ton of goods one mile were lowest on the East Indian main line, amounting to 151d. and 286d. respectively. They were highest on the Scinde, where they reached 675d. and 854d. respectively.

"The lowest average charge for carrying goods was on the East Indian main line, where it was only $\frac{9}{10}d$. per ton per mile; it was highest on the Great Indian Peninsula, where it amounted to 1.63d. The lowest average charge for passengers was on the Madras, where it was $\cdot 342d$. per mile, and the highest on the Scinde, where it was $\cdot 46d$.

"The highest passenger traffic is found on the Eastern Bengal and East Indian main lines, where it amounted to 1,067 and 1,020 persons per mile per diem respectively, or about equal to that of the English London and North-western; and the lowest on the Scinde, where it was only 149 persons per mile per diem.

"The highest goods traffic is found on the East Indian main line, where it amounted to 1,336 tons per mile per diem, about the same, probably, as that of the London and North-western; the lowest is that of the Madras, amounting to 187 tons per mile per diem only."

With regard to the question of fuel, efforts are being made in all directions to Fuel increase the native supply. That obtained in Bengal and used on the East Indian and the Eastern Bengal Railways maintains its character, and arrangements have lately been made with the Oude and Rohilkund Railway Company, and the Punjab and Delhi Railway Company, by which charges for the conveyance of coal to their respective lines will be so reduced as to make the use of that which can be supplied from Ranegunge and Kurhurbalee more economical than wood. Enquiries are also being made with the view of ascertaining whether the same coal may not be profitably used on the Madras lines. Trials were made by Mr. Boodle, the acting locomotive superintendent of the Madras Railway, under circumstances as identical as possible, with Indian, Australian, and English coal. The result was favourable to Indian coal. The average consumption per mile of English coal was 30.16 to 32.83 lbs., Australian was 27.35, Indian was 31.08; the cost per mile being 6a. 11p., 7a. 1p., and 7a. 1p. for English, 5a. 5p. for Australian, and 4a. 9p. for Indian, the cost price of the English descriptions having been 32r. 6a. 4p. and 30r. 5a. 8p.; of the Australian 27r. 13a. 1p., and of the Indian Tauhoné (Bengal) 21r. 8a. The last has, however, been since supplied at Madras for 18r. 4a., and it is possible that, by arrangements with regard to freight, it may be obtained at a still lower price.

The supplies from the Nerbudda District are now more regular and satisfactory, and soon the Warora mines will be opened and connected with the Great Indian

Peninsula Railway, so that every year an increased consumption of native coal may be expected. Reporting in April 1874, Mr. Walter Ness, the Mining Engineer, says; with regard to the Warora beds, "I compute that at least 20 "millions of coal may be expected, and that there is every reason to believe that there is a much greater quantity than this on the southern part of the field "which has been only partially proved; but, taking only that now named as proved, there is a safe store to draw from for about 130 years at 500 tons a day, which quantity is likely to meet all requirements both for locomotive and manufacturing purposes."

61. The importance of the fuel question is demonstrated by the following statement, in which it will be seen, that while the East Indian and the Eastern Bengal railways obtained coal at the place of delivery on their respective lines, at the rate of 6s. 9d. and 16s. 1d. per ton, it costs the Bombay and Madras lines and those of Central India from 2l. 6s. to 2l. 18s. per ton, and that while the Great Indian Peninsula paid on an average 2l. 12s. 10d. for English coal they obtained country coal for 19s. $6\frac{1}{4}d$. per ton. To give, however, a more accurate notion of the average cost of the coal when used on the different lines, the cost of transport from the point of delivery to the point of consumption must be added. Taking the actual charge for conveyance at $\frac{1}{4}d$. per ton per mile, and allowing for the average distances which the coal has to be carried, about 18s. should be added to the figure above given for the East Indian and 3s. 6d. to that for the Eastern Bengal. This will bring the cost of coal for these railways up to about 24s. and 20s. per ton respectively. In the same way, about 12s. per ton should be added to the cost above stated for the Bombay and Madras lines, making the average prices at the points of consumption 58s. and 70s.

				1	Coal.			****		Coke.							1	Patent Fuel.								Wood.									
Dollers							1	Consu	option.	2			Ī	·		Consur	aption.					•	C	onsur	nption.		<u> </u>			. 4		Consu	mption.		
Railway.	Quant in Tou	_	Total (Jost.].	Cost p Ton.		Per Train Mile in lbs.	Per Vehicle per Mile.	Quan- tity in Tons.	Total	Cost.	C	ost pe Ton.	.	Per Train Mile in lbs.	Per Vehicle per Mile.	Quan- tity in Tons.	Total	Cost,	C	ost pe Ton.	M	Per rain ile in lbs.	Per Vehicle per Mile.	Quantity in Tons.	To	taì C	ost.		t per on.	Per Train Mile in lbs.	Per Vehicle per Mile.		
East Indian, Main Li ,, Jubbulpo Line.	179,1 re 11,7		£ 60,510 16,231		5 (2 s. 0 6 1 7	9	54·75 45·81			£	5. d	. æ	. a.	d,				£	s. d.	£	.	d.			40	4		. d. 3 5	£	a. d. 4 1	lbs.	lbs.		
Great Indian Peninsu Madras Bombay, Baroda, a Contral India	- 10,7	39	164,957 26,581 54,756	0 (0 2	9 6 2 9 2 11	6		1.93	8,591 591	10,218 1,775		6 2 0 3	16 1		2.05	•10	676	1,488	0 0	2	4	0			1,920 58,405 473	23,9	85	3 0 0 0 0 10	0 1 0 0 1	8 2	1 10			
	nd 16,2	ł	89,878		- 1		ł			ł																80,692						43.35			
Eastern Bengal Oude and Robilkund	- 4,1 - 14,6 - 1		11,249 11,756 247	4	7 (2 14 0 16 1 14	1	28 · 81 58 - 52	•77	8	15	11	0 4	. 3	8	*62	001					٠				8,308 80 16,380	2	3	3 2 3 11) 0	0 1	0 11 5 5 7 11	İ			
Totals for guarante Railways.	ed 329,2	117	886,169	10	7					4,185	12,000	14	610	0	8			676	1,488	0 0	2	4	0	-		111,248	48,3	41 1	4 0						
STATE.												-												•	 										
Calcutta and Sou Eastern. Nulhatee	1	298		10 1	0	0. 19	1	•	4 - 17	j	}					٠.	}							٠		7		3 17	5 9	0 1	0 10	0.41	0.02		
Numatee Oomrawuttee Khangaum Holkar Rajpootana Wurdha Valley Nazim's	2408	618 180 62 6 ·83 87 545	496 165 9 7,027 229	6 6 9 2 7 6 1 9 0	0 0	1 1 2 15 2 13 1 10 2 16 2 12 2 15	0 4 4 42 8	40.80 54 85 24.55 51 41.9	1 1 · 18 3							•							•			15 10 1286-7 222-80 4 11	62 25	4 18 2 4	8	•	3 3 1	5° 5 66 · 60 9 · 27 2			
Total for all Railwa Indus Steam Flotill	76 - 334,	421 }	397,480	16	8				 													•				112,805 42,960	49,24 19,29			08	11-8				
Totals for Railways Flotilla.	and 334,	421	397,480) 16	8					4,185	12,00	D 14	6		7		•	676	1,488	0 0	厂		<u> </u>			155,765	68,58	9 19	7						

Moving of troops on railway.

62. Another subject of interest connected with railway traffic may be briefly referred to, viz., the conveyance of troops by train. Experiments were made in the Punjab, under the directions of General Sir Charles Reid, to ascertain in what time guns and horses could be transported and landed, and the following were the results:—66 horses harnessed were embarked in 11½ minutes: platforms were fixed in 4½ minutes, and the horses were reshipped in 2 minutes. Half a battery fully equipped for service was ready to move in 39 minutes. From the time of discubarking to firing the first gun 6½ minutes elapsed, second gun 9½, third 13½ minutes. The whole, including guns, limbers, wagons, &c. were disembarked in 35½ minutes. A squadron of cavalry was embarked in 6 minutes.

Police.

63. The difficulties connected with the police arrangements seem to be disappearing, although considerable energy on the part of the superintendents is still necessary to prevent extortions and other malpractices. Considerable cleverness has been shown on the Bombay lines, in detecting culprits and bringing them to justice. In October the body of a man was discovered on the Great Indian Peninsula Railway completely cut in half by a train. It showed traces, however, of ill-usage, which led-to suspicions falling on his wife.—The crime was ultimately traced to four men, her accomplices, and they were all found guilty and sentenced to death. The robbery of a passenger by abstracting Rs. 8,500 from his bag when asleep was also detected and traced to seven people, members of a tribe or society, who by quarrelling over their booty, assisted the police in their enquiries.

Feeder roads.

64. In connexion with the subject of traffic, I may mention that the Government of India and the Local Governments have taken up with carnestness the subject of approach roads to stations, and that a systematic attempt appears to have been made to supply, on a comprehensive scale, proper feeders for connecting the railways with the emporia of trade and the agricultural districts in their neighbourhood.

Effect of increase of native manufactures.

65. The growth of manufactures in India will affect railway traffic in opposite directions. Exports of raw materials will probably be reduced, while imports may be expected to increase. But we may be pretty sure that, in the long run, whatever adds to the prosperity of the country will improve railway receipts.

NET EARNINGS and Losses of the Indian Railways during 1874.

Guaranteed. East Indian, Main Line Jubbulpore Line Great Indian Peninsula Madras Bombay, Baroda, and Central India Scinde, Punjauh, and Delhi South Indian Eastern Bengal Onde and Rohilkund STATE. Calcutta and South-eastern Holkar Rajpootána Wurdhá Valley Nizam's Nulhuttee Berare Comprayuttee Comprayuttee Pundan Line 2,061,921	Railway.		Amount	Per Train Mile	Per-centage of Recupts.	
Jubbulpore Line 134,956 4 · 66 57					100	
Great Indian Peninsula Madras Bombay, Baroda, and Central India Scinde, Punjaub, and Delhi South Indian Eastern Bengal Oude and Rohilkund STATE. Calcutta and South-eastern Rajpootána Ruydhá Valley Nizam's Berar. Berar. 134,956 4 '66 57 4-02 41' 191,305 1:99 86 48' 5-02 48' 5-02 48' 5-02 48' 5-02 48' 5-02 48' 5-02 48' 5-02 48' 5-02 48' 5-02 48' 5-02 48' 5-02 48' 5-02 48' 5-02 48' 5-59 46' 71,320 2 '48 36' STATE. Calcutta and South-eastern 1,975 1:12 22' Holkar 1,631' 1:09 20' Wurdhá Valley Loss 95 1:1,161: 1:09 20' Wurdhá Valley Berar. Berar.	ast Indian, Main Line 🕒 - 🚁	-	2,061,921		₹65 • ≥	ł
Great Indian Peninsula 754,728 4.02 41 Madras 191,305 1.99 36 36 Seinde, Punjaub, and Delhi 266,443 3.531 40 South Indian 34,840 2.8 42 Eastern Bengal 167,72	Jubbulpore Line	1 7		4.66	57	
Bombay, Baroda, and Central India - 257,143 5.02 48 Scinde, Punjauh, and Delhi - 2 266,443 3.531 40 South Indian - 34,840 2.8 42 Eastern Bengal - 167,721 5.59 46 Onde and Rohilkund - 71,320 2.48 36 STATE. Calcutta and South-eastern - 1,975 1.12 22 Holkar 1,631 0.80 15.80 Rajpootána 11,161 1.09 20 Wurdhá Valley - Loss 95 50 4.93 Nizam's - 623 43 5.93 Nulhuttee - 2,5569 1.64 33	reat Indian Peninsula -	- 1	754,728	4.02		
Scinde, Punjanh, and Delhi South Indian - 34,840 2.8 42		- ! [191,305	1:99	86	1
South Indian Eastern Bengal Oude and Rohilkund STATE. Calcutta and South-eastern Holkar Rajpootana Wurdha Valley Nizam's Berare. 34.840 2.8 42 46 5.59 46 36 36 1.975 1.12 22 1.975 1.12 22 1.981 1.99 20 4.93 1.988 95 1.98 1.99 1.99 1.99 1.99 1.99 1.99 1.99	ombay, Baroda, and Central In			5.02	-48	Į
Calcutta and South-eastern 1,975 1 12 22 Holkar Rajpootana 11,161 1 09 20 Wurdha Valley Loss 95 43 5 93 Nulhuttee Berar 1,631 1 64 33		1 2	266,443	2. 3.531∈		1
Oude and Robilkund - 71,320 2 48 36 STATE. Calcutta and South-eastern - 1,975 1 12 22 Holkar 1,631 0 80 15 80 Rajpootana 11,161 1 09 20 Wurdhá Valley Loss 95 50 4 93 Nizam's 623 43 5 93 Nulhuttee - 2,558 1 64 33		•		2.8~		ł
STATE. Calcutta and South-eastern Holkar Rajpootana Wurdhá Valley Nizam's Nulhuttee BERAR. STATE. 1,975 1 12 22 15 80 15 80 15 80 15 93 20 4 93 4 93 1 623 1 64 3 35		= 27	•167,721		46	1
Calcutta and South-eastern 1,975 1 12 22 Holkar 1,631 0 80 15 80 Rajpootana 11,161 1 09 20 4 93 Nizam's 1508 1623 1 64 33 BERAR.	ude and Rohilkund	- 1	71,320	2.48	36]
Calcutta and South-eastern	Kirin dan karangan da	1	र १६ (क.स्टब्स	inc pe of	9 4	1
Calcutta and South-eastern - 1,975 1·12 22° Holkar 1,631 0·80 15·80 Rajpootana 11,161° 1·09 20° Wurdhá Valley - Loss 95 50 4·93 Nizam's 623 43 5·93 Nulhuttee - 2,5568 1·64 33°	STATE.		. 65 (7.110	- 1 20 15	The second second	1 .
Holkar Rajpootana Rujpootana Loss Vurdhá Valley Loss Nizam's Rujhuttee Rajpootana Loss Service Service Loss Service Se				/	22	1
Rajpootana		- 1 - 4				1
Wurdhá Valley LOSS 95 50 4 93 Nizam's 623 43 5 93 Nulhuttee 2,558 1 64 33 BERAR. 3 - 2 3 - 3	Raipootána	5.3			r.	1
Nizam's - 623 43 5.93 Nulhuttee - 2,558 1.64 33	Vurdhá Valley	Loss				1
Nulhuttee: 2,558 1 64 33 BERAR.		· 1		43		1
Berge.		.) [2.558	1.64		
the state of the second		7 7	in His Grand			1
Companyities = 24.71	BERAR.		F 34 语单位		·:	
Comitan accord	Oomrawuttee		-967	2.62	34.71	
Kamgaun 465 2.31 18.85	Kamgaun - F -	ا سان چ			1	ļ

Fares and Rates in use on the Indian Railways.

		1	Passenger		7-	;	, <u>i </u>	· • · · · · · · · · · · · · · · · · · ·	Goods		•
·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fare for	travelling	One Mile	, -		. D.		 		
		Tate for		CHO MIN		44	Rai	te for conv	reying On		e Mile.
Railway	First Class.	Second Class.	Intermediate Class.	Third Class.	Fourth or Coolie	Of First or Lowest Class.	Of Second Class.	Of Third Class.	Of Fourth Class.	Of Fifth or Highest Class.	Special
			7		1	,		-	-		
GUARANTEED.	pies.*	pies.	pies.	pies.	pies.	pies.	pies.	pies.	pies.	pies.	pies.
East Indian, Main Line.	18	9	• 44	8	Nii	9 078	13 61	18-146	22 683	97 · 221	From 4.54 pies for coal up to 9.078 pies.
East Indian, Jub- bulpore Line	18	9	44	8		9-078	18-61	18-146	92 ·683	27 921	From 5.44 pies up to 9.078 pies.
Great Indian Penin- sula.	18	g -		4	21	10	14	24	84	48	
Madras -	15	5 6₹	₹.,	. 8 }	, 2	12	. 14	- 18	- 24	86	From 63 pies up to
	:	-	Third By Mail	Class					∔ ;;;	1,43 (6)	10 pies.
Bombay, Baroda, and Central India.	15 ··		Train.	· 8 ·	_	11-49	14 - 48	18.68	81 · 19	48 89	From 8 pies up to 8.62 pies.
Scinde, Punjab, and Delhi.	18	- 9	44	3	-	9.60	14-81	19.26	25.37	29*	·
South Indian	12	-5,	. ~	.j. 2 .	, -	 19	14	18	24	36	From 6 pies up to 10 pies.
Eastern Bengal	12	6	_	41	8	9.33	14	18.66	28	56	From 6.15 pies up to 11.28 pies.
Onde and Rohilkund	Upper 9	Upper Reserved 36	Lower 2	Lower Reserved 3	L. Resrvd. Cmptinnt, 16 & 24	9.08	18 - 62	18.16	22.7	27 · 25	From 5:40 pies up to 6:80,
State.							<u> </u> 		,	 	
Calcutta and South-	9.00 Upper	Lower 2.67	 .	_	_	· —		-	_	-	}
Holkar - •	12-23	4.58	_	2.29	-	13.76	20.64	27.52	- - '	-	From 6.88 pies.
Rajpootana -	10.46	5'06		2.24	1.26	13.52	18:04	25.40	_	-	From 10.44 pies.
Wurdha Valley -	18	9		4	21	10	14	24	34	48	From 5 pies up to 8 pies.
Nizam's	18	9		4	21	10	14	24	84	48	,,
Nulhuttee	28*	14*	-	7.	4.57	18.07	21.56	80.	47.55	88 · 46	From 7.77 pies.
								}			
Berar.			e .			,	•				,
Oomrawuttee -	18	g	-	4	, 2 1	10	14	24	84	48	From 5 pies up to 8 pies.
Kamgaun	18	9	_	4	21	10	14	24	84	48	,,

^{* 8} pies = 1d.

Number of Locomotives and Vehicles owned by the Guaranteed Railway Companies.

	Lo	comotive	·s.	Passe Carri	nger ages.	Goods T Wag	rucks and gons.	Total Number of
Railway Company.	Former Number.	Added in 1874,	Total Number, 31stDec. 1874.	Former Number.	Added in 1874.	Former Number,	Added or Deducted in 1874.	Vehicles on 31st December 1874.
East Indian	525	[less 7]	518	924	_	6,794	[less 130]	7,588
Great Indian Peninsula -	330	15	345	1,296	13	6,684		7,993
Madras	126		126	368	15	3,267	[less 67]	3,583
Bombay, Baroda and Central India	85		85	235	[less 2]	2,844	[less 36]	3,041
Scinde, Punjab, and Delhi -	135	_	135	444	_	1,941	72	2,462
South Indian	21	4	25	43	48	347	26	464
Eastern Bengal	43		43	158		705	2	865
Oude and Rohilkund	60	2	62	195	48	556	75	874
Totals + -	1,325	28	1,339	9,663	103	23,118	[less 38]	26,870

The following statement gives the comparative quantities of the chief articles of traffic carried during the last two years. A very large increase will be observed in grain, seeds, and rice. Coal also has increased. Cotton on the Bombay lines increased, but on the East Indian diminished:—

	Articles.		Indian, Line.	East L Jubbulpe		Great] Penin		, Mad	iras.	Bombay, E Central		Scinde, and Delh dus Stear	i, and In-	South	Indian.	Eastern	Bengal		e and lkund,
	j .	1874.	1873.	1874.	1873.	1874.	1873.	1874.	1878.	1874.	1878.	1874.	1873.	1874.	1878.	1874.	1878.	1874.	1873
۱,	Cloth	Tons,	Tons.	Tons. See piec	Tons.	Tons.	Tons.	Tons. 5,783	Tons. 5,466	Tons. See piec	Tons.	Tons. See piec	Tons.	Tons. 2,182	Tons.	Tons.	Tons.	Tons.	Tons
	Coal	505,519	417,878	2,506	212	917	1,524 ng coke.	324	817	2,742	2,067	507	321		_	8,643	11,289	1,414	50
ŀ	Cocoa-nuts	See dri	d fruits.	See drie	d fruits.	9,625	8,821	2,401	2,398	3,768	3,787	See drie	d fruits.	- 100 	_	_			_
] (Coffee	·		_			_	4,834	5,250	29	25	49	85	· — ·	<u> </u>	_	- ·		_
1	Cotton	21,847	43,095	1,491	8,805	110,700	84,252	20,796	19,328	46,248	87,969	5,974	7,166	_	_	471	426	4,401	2,38
1	Dried Fruits	5,081	4,905	2,737	2,836	12,444	12,225		_	3,807	6,072	6,280	6,249		_	_	_	1 -	-
1	Firewood	12,346	17,573	8,817	14,728	25,741	16,601	9,588	10,446	8,025	8,412	14,848	24,938		-	-	_	8,707	;
	Grain	840,248	165,254	63,639	28,007	232,036	133,851	83,688	24,735	32,188	27,284	246,339	138,596	86,940	82,312	15,241	11,612	59,439	19,7
4	Green Fruits and Vegetables -	- -	- 	[—]		12,836	10,971	5,587	4,611	12,988	6,893	2,258	2,061	3,513	2,760	— .		—	_
	Hides	22,918	23,633	835	1,768	{ 2,693 { includi:	4,697 ng horns.	} 6,152	7,954	638	1,292	2,778	8,490	807	890	5,855	×22	2,179	1,8
1	Iron	60,720	43,487	4,848	2,710	-	_	6,817	5,499	See 1	netal.	See 1	netal.	_	-	28	44	l –	-
١	Jagree and Sugar	50,686	55,622	20,146	21,132	20,958	21,630	13,427	12,149	22,223	21,803	29,778	29,685	_		8,058	7,796	17,548	9,6
1	Jute	1,016	759	265	207) —	_] — [·	_	— '	See hem	& flax.	_	_	112,407	124,049	510	[:
- 1	Metal and Hardware	 	<u> </u>	~ `	_	89,176	46,579	 	l —	5,809	3,934	11,591	7,205	_	-	620	783	4,763	2,9
1	Military Stores	14,488	15,565	886	810	7,866	8,690	4,197	5,091	1,677	1,978	10,305	10,972	15	. 88	684	857	3,263	4,0
l	Oil	8,086	2,097	66	76	9,259	5,910	5,970	6,219	1,842	851	3,927	2,949	1,385	1,297	— j		630	9
ļ	Opium	7,648	7,173	—	. 1	4,311	8,852	. –	. .	902	947	See medicir		-		21	14	332	. 2
ļ	Piece Goods	44,872	42,450	4,755	8,791	16,278	13,115	-	-	7,280	6,762	11,359	7,380	_	_	10,289	9,913	4,930	2,0
-	Rice	449,978	122,205	1,792	1,109	i –	–	63,742	82,672	See g	·		rain.		grain.	101,452	15,746	-	' -
-	Salt	123,182	1	5,214	4,629	65,802	64,926	48,051	46,818	32,117	23,632	11,344	11,542	11,401	10,584	3,117	1,850	24,784	18,1
1	Seeds	129,586	1 .	9,570	4,784	63,801	86,565	15,029	12,285	8,968	7,790	29,897	22,570	6,251	3,826	85,628	11,371	7,153	8,8
1	Silk	664	808	71	31	452	256	-	_	See piec	-	161	448	- [_ [222	270		_
Ì	Timber	19,154	1 '	1,038	838	15,569	17,094	14,797	16,836	7,691	7,183	6,291	5,815	_				17,022	9,2
•	Tobacco	9,508	1 '	1,354	814	8,318	2,331	6,352	5,203	7,587	5,821	958	871	944	692	14,532	11,687	352	3
	Twist	1,869	1 '	264	470	4,928	4,265	4,095	8,804	1,578	1,890	813	8,797	_				693	2
i	Wines, Spirits, &c	14,285	1	1,006	897	4,254	4,611	1,923	1,583	630	602	4,400	2,327	-	_	189	200	2,704	1,87
	Wool	I –	-	-	—	162	270	-	 	- 1,950	2,238	3,698	6,767	- 1	-	-	- 1	- 1	

STATEMENTS relating to the PASSENGER and GOODS TRAFFIC and the GROSS

	Anton	Numbe-	of Wiles	ones es	Stat De		00 ±	:	•		assenger '		on the I	
	and a	verage	or mue Number darin	open on of Miles g 1874.	of Open	Line	State	(estilues	os of Hol	Number Hers of S	of Passeng eason and	ers Periodica	Ticketa),	s of Bes-
Railway.	Dou		Sin	1.1	To	tal .	Number of Miles of S1st December 1874.	Piret Class.	Second Class.	By Intermediate Class.	rd Class.	FourthorCoolie	by all the	r of Holders d Periodical
·	Actual.	Атегаде.	Actual.	Атегаде	Aotual.	Ательке.	Mambe Sigt I	By Pin	By Seco	By Int	By Third	By Four Class	Total by Classes.	Number o
			 	-				, 	-:-			PA .		
GUARANTHED.				E .			4			•	٠ . د و و	10 1		2
set Indian, Main Line	4104	410}		869 1	1,979	1,279	27 91	44,081	95,750	398.661	5,259,190	Nil	5,792,051	9,171
st Indian, Jubbul-		- i	\$23.I	- 2234	9234	2.25		8,771	.0.667	8,954	234.785	# ⁴	830,177	
est Indian Penin-			#800F	2.	2000	asot.		4051 5.7	É.				200,147	.
uls	8271	827 }	999	939	1,2661	1,286 <u>1</u>	2024	27,807	108,498	} : ∫	520,692	2,475,597	3,1#0,094	750
mbay, Baroda, and	4	-	858		858	نده ا	.85)	14,787	52,918			569,806 Class	2,772,864	210
Central India	28	28	405	401:	4281	494	469	90,750	160,014	-1	Mail 872,144	Ordy. 8,175,183	8,787,096	4,08
nde, Punjab, and Jeihi	41	44	659	660	663	6681	103}	14,623	28,608	18,932	8,040,989	- Company	2,112,102	
ath Indian	_	_	187	_	187	-	,15}	2,761	15,757	_	1,400,020	<u></u>	I,517,544	9
stern Bengal * -	1581	-	158‡		, 15 0)	<u>۔</u>	#01	20,3481	E1,0414	بر ورد	329,216	1,127,699	1,537,499	2,61 0
de and Robilkund		_	540	524	540	483.	44 {	17,584 Upper	} _	- {	1,977,326 Lower	} ~	1,994,890	_
9						1.8 *		Ý	1.	, ,		19 10 10 10 10 10 10 10 10 10 10 10 10 10	1 to 1	
STATE.			- 1		S	2 14 2 14		n familia					1	
astera -		_	28	<i>i</i> -	28	े कि िकि	84	- {	8,488 Upper) 보기	- {	431,785 Lower	485,918	-
lkar's		_	87	36	57	36	**	682	3,704		106,091	[3]	109,477	, —
ipootans		· <u></u>	201# 18	168 <u>4</u>	2914	7684	161	1,995	4,264 350	-	285,796	448,534	C85,589	- 1
ardha Valley			121	127	18. 1	18 181	. ii	833 850	3,588		1,674 16,311	7,816 55,969	78,568	· _
ilhuttee		:	271		1 271	المهادية : محوا	11	870}	1,986}	المرجعة المراز	4,056	JAMPS, planter, pa	69,870	_
						,	1 ;	į,	1	1) (
Вивар.			10 244		٠	—	-			à	in the second se			
mrswuttee		- :	6	6.	đ	- 6	J	885	1,808	-	-478	7,	41,969	-
THE RESERVE THE STREET	-					~ 8		230	- 688		8,601	1,196	7,805	· -
Totals for Railways	9267	7662	5,8761.	48,978	6,148	4,789	898}	180,191	543,618	415,837	14,779,983]	8,852,046	24,271,176	17,49

RECEIPTS and EXPENSES for the Year ended 31st December 1874.

RAILWAYS during the Year ended 31st December 1874.

/			<u> </u>	1	G	oods Traffic.		•			
	4	Number	of Tons of M	inerals.		,	tumber of To	ous of Genera	d Merchand	ise.	·
	Number of Live Stock,	Number of Tons of Con and Coke.	Number of Tons of all other Minerals.	Total Number of Tons of Minerals.	Of First or Lowest Class.	Of Becond Class	Of Third Class.	Of Fourth Class.	Of Pitth or Highest Class.	Special and Sundry.	Total of all Classes.
}	1.50m.	li Elitatatata				i .				ı	
		1				_					·
ļ	I TREAT	**************************************	* *	**************************************	1 dra acu						
+	19,605	508,519	912	508,519	1,363,901	128,480	45,110	28,595	4, 199	74,887	1,632,562
 	180	2,508	4 -	2,506	146,449	18,588	5,985	1,996	295	6,441	174,604
	261,064	942	1	948	510,917	161,211	81,248	39,464	6,558	108,000	including cos 852,335
+	10,881	:	- '	; ; = ;	125,707	45,198	21,910	Ŷ,9 9 0	3,897	165,989	870,566
	172 (60	28,268	98,785	127,04B	EN MON		40.00		1200	Dr. 007	1
	174,193	20,000	00,750	127,045	81,581	41,271	46,196	1,964	1,528	95,687	287,522
]	, 2,270	- !	28,464	28,464	103,846	48,289	19,510	12,931	1,854	277,471	458,400
	2,188	_ <u>'</u> ,	-	<u> </u>	67,724	288	140	609	915	53,261	122,230
	3,159	5,642	11,414	17,056	115,688	49,826	3,335	1,476	251	158,516	329,097
†	1,553	1,408	- 1	1,408	51,112	6,940	8,924	4,502	720	188,408	including cos 209,004
	Santaga	1		- 1 N							
					1				:		
	113	892		302	-	_	- 1	_	_	29,574	29,574
	-	* _ ;	(<u>+</u>	. –	18,517	1,058	1,918		_	1,054	17,547
] ;	_	. 59		. 59	54,690	3,447	509	_	. –	, 58,276	116,942
		-	-	; <u> </u>	5,487	S,761	94	38	1 '	- :	9,381
-	-		-	1-1	2,916	1,172	525	100	124	_	4.837
	1	4,081	<u> </u>	4,061	2,903	1,156	1,123	399	22	7,96	12,867
	3	1						+		1	
Ť		- 1	11				l .		 -		
+ :	-		-		7,367	21,038	801	197	81	_	29,409
	145 .451 15.350 €		_ = =		8,155	22,579	308	156	3		\$6,199
	474,487	548,787	138,663	687,450	2,646,838	546,292	187,579	97,570	18,678	1,164,919	4,663,016
		<u> </u>			-	_	_	-	_	_	88,608
-			 								4,696,624

			Vumbe			d Vehicl	Maggan				I RAFF.	10 011	the Indi	Number	of Wiles
						U VOILO	, ;	LOBI			han of Na	liidas	78	in al	unting,
		· .		Carriag	res.	.,	<u>'</u>	-			ber of Ve h Train.	mag.	g Bpeci	onstru ier Rei	•
Railway.				Class.		,			cach Pas-	ench Goods	In each Passen Goods	Mixed ger and Train.	(including Special Trains.	cluding C als for oth	Trains.
	Engines.	First Class.	Second Class.	Intermediato Class	Third Class	Fourth Class.	Total Number	Trucks.	Carriages in each songer Train.	Trucks in e	Carringes.	Trucks.	By Passenger (and Troop) T	By Goods (Including Construc- tion Materials for other Bail- ways) Trains.	By Mineral T
Guaraeteed. Kast Iudian, Main Lino –	465	1st half 77 2nd " 77	- 85 85	47 66	321 810	: -	530 538	5,211 5,200	16) 16)	80 4 204	13 2 144	73 81	1,196,515	4,518,088 <u>1</u>	177,478}
" Jubbulpore Line	41	lst half 8 2nd 8	13 13	4 6	28 28	Ξ	58 58	835 836	141	28 27	6h 6	161 171	168,920}	246,796	200}
Great Indian Peninsula -	331	79	146	com- posite 87	369	67	748	6,760	14.40	84.40	7:50	20-0	1,819,378	2,027,277	-
Madras	94	27	64	com- posite 36	200	. 89	* 375	2,966	13	18	7	8	24,757	410,887	-
Bombay, Baroda, and Central India	64	11	\$8	com- posite 15	191	- # 	175	9,539	6-7	41.25	9.0	15 84	362,68G	2974284	-
Scinds, Punjab, and Delhi	156	49	75	8	239	_	871	3,045 incl.		<u>}</u>	80 	 - -	587,148	718,365	-
South Indian	26	composite 14	8	-	54	7.1.	76	break Valus 888		- .	. 8	15	_	_	-
Eastern Bengal	43	· ;, , 9 0	16		85	68	184	₃ 781	15			25	216,810 }	178,383}	
Oude and Rohilkund	56	upper 21	lower 126	com- posite 10	steel 10	Ų	187	459	16	18	21	24	5,460	85,861	17,636
STATE.						1.%		et i.t.	-		1	÷		,	
Calcutta and Sou(b-eastern	, 5	-	upper 5	_	-	lower 20	125	34,8	7		10	9	-	-	-
Holkar's	ß	4	5	_	29	3	41	5 7	12	17	1	8	24,478	8,107	-
Rajpootana	25	. 9	10	COIII-	7 0	8	122 incl.	397		1	10.41	11:11	2,227	44,883	-
Wurdha Valley	1	-	ſ	posite 1 com-	2	3	engines 5	. L. 28		16.82	4.42	18.86	95	708	-
Nizam's	5	. •	· 6	posite 1 com- posite	10	- 10 7	81	70	14 48	21.68	18 24	12.00	8,768	2,046	· ••
Nulhuttee	δ	2	<u> </u>	1			6	17		1		1.5	-	-	1
Berae.			* ! *	com- posite	\$.,t	i ¥o≱d i		1.5d,≃		٨.			*** 94** *******************************	٠.	
Comrawutice	2		-	com- posite	2	. 2	5	88	+	20.80	4.65	10-60	. -	78	I
				<u> </u>	3	2	5	\$ 38		23.70	4190	14-19		688	
Totals		•									1	4.	8,905,2363	8,488,086	195,323

during the Year ended 31st December 1874-continued.

 travelicd piloting,	by Trains (und assisti	(except ng).					Number	of Ton Mi	les (expres	ed in the	Number of	Tons mov	ed One Mil	e).		
		storials	t) (L)	1	s, Car- zc, con- sins,					Good	da Traffic.		-	•		
By M	lized ger and	vering M. Purposes.	of Train l	Train Miles	cuggago, Parcels, (Horses, Dogs, &c. o n Passenger Trains		†		Genera	l Merchand	lise,			nd Gene-	Proport Up and Trai	Down
	Trains.	By Trains conveying Materials for Revenue Purposes.	Total Kumbor of Train Miles.	Number of I open Mile.	Excess Lugga ringes, Horse veyed in Pas	Minorals.	First or Low- cat Class, ex- cept Special.	Second Class.	Third Class.	Fourth Class.	Firh Class.	Special and Sundry.	Total of all Classos.	Total Mineral and General Merchandise.	Up.	Down.
942,083}	496,5021	220,490 <u>}</u>	7,551,1 6 7	5,900°80	Train miles, 1,854,755 horses, &o, 3,209,125	86,766,571	285,047,924	55,174,632	1 4,066,7 90	10,827,099	1,206,124	160,784,709	687,164,385	613,933,906	47	53
61,9561	101,972	4,310	584,065	e,6 10 ⁻ 34	202,831 horses, &c. 204,288	311,783	26,897,406	2,530,970	1,228,072	415,418	44,854	1,440,388	32,057,106	32,368,88 9	24	76
155,188	429,816		8,924,654	\$,099	_	239,041	130,903,887	47,26 0,878	8,644,915	9,268,088	1,710,809	927,000	198,714,877	198,953,918	57	43
691,801	798,528	-	1,925,478	-	874,115	-	18,858,411	7,048,214	8,571,036	1,521,844	520,634	26,022,007	57,649,606	57,649,606	68.12	41.88
119,918	202,2171	41,872	1,023,078}	2,415	125,348 luggage only.	2,292,47 0	12,915,782			234,017	417,065			46,035,543	57*28	42:77
89,049	88,050	104,150	1,585,762	1,105	317,506	1,847,858	13,187,706	7,590,698	8,378,430	1,907,485	05,499	51,116,897	77,481,595	79,279,448	88	87
Ĭ.	±,206	9,616	823,822	1,732	69,604		3,996,722	11,056			12,718				ā	59
+ 32,670 338,977	130,691 278,116	48,671	558,555 7,7 21	3,529	200,083 163,060	1,703,098 47,831		0,684,314 960,509	406,466 987,519		31,426 74,058				30.06	69°95
	-			.,							7					
23,928	14,354	180	, 38,457	1,878	2,848	8,346	·	, _	-	-	-	678,383	678,383	681,728	96.38	3.17
4,998	2,004	2,703	43,277	1202-14	- '	–	478,603	38,066	66,942	. —	_	39,012	614,628	614,623	80	70
110,222	62,639		210,971	1,303	68,952	1,941	2,791,783	276,587	47,988	-	-	1,903,440	5,109,903	5,111,844	52	68
1,064	1,863	-	3,819	201	· - ·		108,410	71,441	1,781	783	21		177,381			-
14,207	8,225	-	20,146	211	. 1	-	239,874	155,451	50,977	11,147	9,168	_	475,617		-	-
12,722	21,204	133	S4,030	1,250	8,927	110,665	67,902	-80,550	30,372	10,785	508	197,848	339,0 50	448,716	79.12	20.88
4,552	2,750	_	7,380	1,230	_		44,200	126,193	4,808	758	405	_	176,454	176,454	-	_
1,283	1,951	_	4,016	503	_	•	25,248	180,635	2,445	1,247	25		209,595	209,595	_	
2,503,504 *314	2,636,752 1,206	482,134	18,475,322			93,323,598	512,251,580	136,873,482	48,896,218	24,985,067	4,392,494	287,292,746	1,009,681,587	1,102,955,185		
5,45	4,542		,						1 1		41 480 T		<u> </u>	od as well i	he ther :	ould be

[†] There was no error in the return sent home, the figures for passengers and goods having been the same, viz., 31,030. They have been corrected as well as they could be.

TABLE No. 8. GROSS RECEIPTS of the Indian Railways

<u> </u>				GELVEN		Pass	nger Trafi	lo.	eri.			N. V.		LWAYS
			Receipt	from Pas	engors.	•	* !	m Excess Carriages, conveyed		Trains.	90	nger	Tata	
Railway.	Piret Class.	Second Class.	Informediate Class.	Third Class.	Fourth or Coolle Olass.	Holdars of Bessen or Periodical Bokets.	Total Beechie from	Total Receipts from E. Lupgage, Parosis, Carri Forese, Bross, &c. contin Passenger Trains.	Receipts for Mail Services	Receipts from Special Tra	Baceipts from Troop Trains.	Total Receipts from Passenger Traffic—(P.)	Passenger Receipts per T Mile.	Beceipts from Live Stock.
GUARANTIMD. Bast Indian, Main Line	£ 38,314	21,125 £	£ 31,380	£	8 1	.e 8,719	649.255	6 9 865	£ 8,032	4 2,406	£ 18,851	£ 748,416	g. 6 94	£
" Juddulpore Line	5,542	8,855 (1,638	41,654	-		59,489	4758	1,006	184	8,960	68,695	5.82	52
Great Indian Peninsula	29,580 11,535	25,678 10,988	-	90,489 154,569	118,481	898 871	884,691 198,705	47, 2 64	3,308	989] 	68,157	438,544 286,369	6.218	6,015 1,718
Bombay, Baroda, and Central India	4771	10,548	Mail 49,051 Inter-	l chass. Ordinary 117,579 Third		8,106	184344 184344	14955	165	1,080	2,858	203,882	8:43	9,329
Scinde, Punjab, and Delhi South Indian	9,720	9,289	mediate 3,151	class 152,980	-	1	175,140	16.946	677	482	6,149	199,274	B-008	788
Eastern Bengal	8,582	8,191	70 t	19,485	59.764	1,606	48,110 87,578	10,838	17 1 1 (18) 1 (18)	584	16†	50,780 99,029	9·18	50 - 41
Oude and Robikund	-	Upper class 4,926	_	5.2	Lower class 94956	+	99,882	7,887	-	20 78	897	109,288	8'94	1,968
STATE. Calcutta and South-eastern" -	_	Upper class 209	<u>-</u>	-	Lower class 5,407		5,618	161	Nil	9.4	Nit	6,791	4'84	12
Holkar's (11 months) -	146	152	-	8,641	· -	1	8,938	279		D7	. 84	4,368	3 196	1
Rajpootana Wurdha Valley	457	_ 541	- -	18,161	8,470 174	. 13	21,041	3,183	,, —, 	\$ 5		., 32,847 816	4'063 5'45	1 1
Nizam's	891	549	-	1,480	8,806	· · ·	6,319	547		74,	157	6,977	7.76	7
Nulhuttee	195	800	— f	394	8,417		4,306	8449	90	50	<u> </u>	5,268	8:28	1
BERAE. Comrawuttee	86	45	,	540	. 1		630	7	-	1	1	702	8.08	
Kamgaun -	14	19	- 	91	11	-	128	28	_	-		166	2.53	
Totals for Railways Indus Steam Flotills	104,780	102,7 07 223	85, 2 20	1,185,5 67 8,619	875,704 —	9.717	1,868,755 5,260	199,788 170	7,148 —	6,801	105,828	3,184,197 586† 5,480	-	34,216 176
Totals for Railways and Flotilis -	106,198	102,990	88,220	1,189,166	875,704	9,717	1,869,015	199,958	7,148	6,801	105,823	2,190,163		84,508

during Year ended 31st December 1874, and material

	. 1	: N * 2 +	· · · · · · · · · · · · · · · · · · ·	 _	ods Traff		<u> </u>					er and	per per	1	r. d	(P.)+	
Receipta	from M	1	Roce	ipta from	bioc	Mercha k and Mi	ndise (a inerals).	cherive of	Live	Goods :	Train	from Passenger -(P.)+(G.)	Receipts	seipta—	2	Passe	,
From Coal and Coke.	From other Minerals.	Total Recolpts from Minerals.	From First or Lowest Class, except Special.	From Second Class."	From Third Clats.	From Fourth Class.	From Fifth or Highest Class.	From Special and Sundry.	Total	Total Receipts from Traillo-(G.)	Goods Receipts per Mile.	Total Receipts from 1 Goods Traffo-(P.)+	Passenger and Goods Train Mile.	Total Miscellangous Becaipts—(M.)	Miscellaneous Receipta Mile,	Total Boccipts from Passengers, Goods, and Miscellancous—(P.)+	
ž:	e p	163 <u>4</u>			: 	of the		1,03.	10 97	1 1 141.		1 1		• 100			
£ 241,532	£	£ 241,532	£	£ 352,305	£	2 97,480	£ 18,718	£ 115,091	£	£ 2,850,940	9.08	£ 3,098,865	e. 8144	£ 94,280	257	& 3,187,645	
		}	1 ,										'				8
1,446	_	1,445	93,429	17,903	9,800	4,061	688	4,057	139,998	131,148	7.52	199,841	6.72	85,195	1.814	985,087	8
701		701	67 8.721	469,678	108,933	189,980	47,475	18,838	1,363,276	1,869,991	11.12	1,808,535	9:28	40,018	- 90	1,848,548	8
	_	-	92,271	48,821	28,78%	1 6, 029	7,928	97,878	201,202	292,915	4*846	519,284	51894	22,145	23 0	541,430	Б
•1,105	8,074	7,179	70,872	56,595	101,396	8,485	6,630	44,064	285,081 †1,141	304,288	12.18	507,670	10 84	39,881	•60	587,021	10
_	5,591	5,521	60,217	58,059	81,022	2 8,107	4,230	183,649	\$1,608 \$55,884	862,193	8.385	561,467	7:579	43,808	0-891	605,275	6
		-	28,546	8pt	74	611	244	18,385	37,891	37,941	2.4	 88,721	5 +6	2,488	•1	91,160	
3,527	2,467	5,984	₿6 ,10 6	44,344	8,632	2176	578	98,188	205,008	211,084	19:88	810,0 6 8	11.10	16,714	-89	896,777	11
198		193	28,504	7,408	2 346	6222	1,087	38,171	85,781	87,587	5.40	196,870	6.91	3,531	-18	200,401	١,
	n :							1									Ì
		go (1		,	، رأ ي سند					r .						
24	Ni	24	Nii	Nil	Nil	Nil 3	Nil	2,670	2,670	3,706	8 77	8,407	4 43	1,461	76	9,948	ľ
_	·	-	8,597	445	1,070	+	-	149	5,261	5,261	9*47	9,629	4.75	690	0*84	10,819	ľ
8	-	8	19,669	2,600	635	i. Prijar	-	10,844	\$8,738	\$8,746	6.277	56,598	5*145	5,104	-464	61,697	5
50-7 6 	: t -	70 t 70 t	775	746	\$ 8	21	1	9	1,576	1,576	11.85	1,893	9.91	85	*18	1,997	10
	_	-	1,180	1,172	709	187	209	18	[8,478	3,480	6-23	10,457	7.18	61	-08	10,598	7
671		 671	467	352	473	າລ່ ສະ. • 22/ 5	23	838	3,422	8,094	9.92	8,862	4 98	149	09	8,511	
		-	1 yn 4 	lors 5		a s	; - :-	in solve 1		1997	14.4						
_		_	407	1,478	118	; . 25	297	18	2,068	2,068	14-59	2,765	7 50	5 1	-05	9,786	7
 	_		208	2,015	46	8 5	1	. 1	2,299	2,209	16.2	2,458	19.82	19	0.08	2,467	12
249,206	14,052	268,258	2,410,094			293,592	89,838	627,297	4,910,315	5,902,289	-	7,386,466		808,018		7,681,485	-
e ar ja vu		230,000	-1-201002						71,168	71,839	-	76,769		906	i	76,975	
 	<u> </u>	 					`		4,961,478	5,273,608		7,463,235		\$05, 234		7,758,460	_
	<u> </u>			<u> </u>													

[†] Municipal mest train traffic.

TABLE No. 4.—Expenditure on Revenue Account

	Maint of	enance a Way and	nd Rei	newal	Cost of Locomoti Wages an	ve Pow	rer by	newals	ra and of Carr Wagge	TARGS	Coacht oh	ng and andise	Mer-	Collection	and De Goods.	livery
Railway,	- Gr	086.	Per Train	Per cent. of Gross Re- ceipts.	Gross.	Train	Per cent. of Gross Re- ceipts.	Gross.	Train e.	cent. of	Gross,	Train 6.	Per cent. of Gross Ro- ceipts.	Gross.	Train	Per cent. of Gross Ro- ceipts.
	Ordi- nary.	Special.	Per	F Q 8		Per T	F Q 8		Per 7	Per ceur Gross ceipts	-	Per T Mile.	P P P P P P P P P P P P P P P P P P P	11	Per Mile.	Per co
			7.		} :) 	1					-				
GUARANTEED.	£	£	d.		£	d,		8	ď		Ł	đ,	200	2	d.	
East Indian, Main Line -	203,42 0	Nil	6-66	6.88	324,804	10.63	10-10	100,853	8-30	8-16	348,496	11.51	10-74	Nil	Nii	Nil
, Jubbulpore Line	16,889	Nil	G-59	7.19	36,989	18- 3 1	15.74	12,581	8.20	5.85	21,28 0	8-80	8-04	Nil	№ •	Nu
Great Indian Peninsula -	245,094	23,419	16:43	14.22	884,760	\$5 53	90-81	191,074	7-40	6.22	161,523	9.88	8-74	23,728	1.45	1'28
Madrae	108,508	8,618	13-97	20.71	118,668	14.79	21.98	23,512	9.90	4-81	54,259	8.76	10-02	1		
Bombay Baseda and Control	28 E90	Cr.	13 · KG	0.10	no ew	a m	10.41	00.004	4.07		40.000			ļ <u>.</u>		
Bombay, Baroda, and Central India.	56,580	7,240	TE 200	9-19	98,837	23.17	10.47	29,804	6-87	5.46	42,739	10.08	7-96	11,378	8-66	8.11
Scinde, Punjab, and Delhi -	70,793		10-718	11 .998	184,048	2 6∵3 78	28 246	26,187	9-809	4.827	56,269	8.212	9-207	875	0.123	0.144
South Indian	Gross 11,418	_	8-4	127 6	\$4,463	10·1,	36 -6	. n,278	3.6	£-8	8,369	6-2	9-9			
Rasiern Bengal	80,808		16-89	12.03	35,978	15.45	11.01	20,628	8-86	6-81	39,973	17:17	12· 2 8		-	-
Oude and Robilkund -	80,407	-	77.87	15.17	38,554	14.88	19.54	10,182	8.93	5-05	28,390	11.03	16-17			<u>'</u>
	٠.				1.1		,	· /3	ì	i i		`				
STATE,	*!	٠,			,,,		., .		#1	. !					, th	'
Oalcutta and South-sastern	1,794	Nil	11.54	18'04	3,859	21-06	33.76	415	21.60 €:	4-17	1,080	6.77	10-85	9	.02	-09
Holkar's -	1,578	125	9:45	16.28	2,807	15-56	27-19	613	1.84	4-97	2,068	11-44	19.99	120	0-67	1.16
Rajpootana	15,028		16:40	24.36		18.77	27:78	1,409	1.24	2.58	6,960	7-59	11'98	1,616	1.77	1.08
Wurdha Valley	Gross 512	[·	32-17	26-57	574	86.07	20.70	78	4°90	4-05	495	31-11	25.08			
					٠,				1 2		4 1/				-	
Nisam's	2,197	-	18-09	20.61	3,962	32.62	37.70	(-	 	-	8,227	20.57	30.71	-	-	-
Nulhuttes	1,238		8.76	14-55	1,922	13-59	22.28	622	l	7-31	926	6.22	10.28	208	1'47	1:44
BERAR.					,	'				. '				,		
Oomrawuttee	Gross 361	V a	77.54	19105	1 10r	1		6.0) V	() / 		•	5 ₃ ·	-		
	301		11.76	12.05	1,186	96.64	42.68	178	8.73	6.83	748	24.32	26.85	-	_	_
Kamgaun	278	_	16.61	11.87	505	30.18	20.47	78	4-66	3-16	837	20.78	18.68	11 11 11 11	-	-
Totals for Railways -	757,699	24,923			1,220,111			\$52,688			771,114			37,986		•
Indus Steam Flotilla -	1	•	•	•		-	•	1 -	1	-;	• • • • • • • • • • • • • • • • • • •	•	<u> </u>	•	•	• •
Totals for Reliways } and Flotilia}		<u>-</u>	4	•	•	,		* * * * * * * * * * * * * * * * * * *	-		-		ا در سرور		- ,	

during Year ended 31st December 1874.

	Rates	and Ta		Compen &c., Do	sation for l mage and	Personal Loss of C	Injury, 300ds	Legal an	d Parlia: Expenses	mentary	Miscellar Expenditu in the	neous Wo ire, not in s foregoir	rking icluded	Total Work	ing Expe	nditur
	Gross.	Per Train	Per cent. of Gross Re- ceipts.	Gr Personal	Goods.	Per Train	Per cent. of Gross Re- coipts.	Gross.	Por Train Mile.	Per cent. of Gross Ro- ocipts.	Gross,	Por Train Mile.	Per cent, of Gross Ro- ceipts.	Gross.	Truin le.	Per cent, of Cross Re-
ŀ			A	Lorson	1	A A	1 5 0 E		A B	808	· ·	ψ. X	\$0.8		Per T	P S
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1	₽,	d.	1111	£	Ł	d.		^e	d.	í l	e i	d.		e l	ø.	
	5,007	-16	. 16	, נוא	8,072	*18	*19	1,236	*04	*04	143,786	4.21	4-51	1,125,724	3-07	85.88
	Nil	Ņii	Nil	Na	412	•17	. 17	· 1	Na	Nil	11,949	4.01	5.08	100,081	3.42	42.28
Í	3 08	-08	*0*	1 2010									į		1	
		W	-05	2,948	2,237	*82	*29	1,372	-08	-07	91,518	5.60	4*95	1,058,581	5.40	67.26
ł	646	.tòś	: 12	408	1 100	*06	. 100	916	.11	-17	39,705	4.98	7:33	350,124	a-ca	64.07
ļ		117	jei	2.47		ŧ i] :.					1				
	650	*15		. 46	351	10	-07	340	- 07	*08	46,993	10.99	8.74	270,878	8:47	52.15
	. 188	0.019	0.021	្រស់ សូក្សិត្ត	954	0'144	0.137	373	0.028	0.061	58,452	8-099	8:831	343,679	4'83	56:7
	- 67	-06	1		7	005	007	-			E bode	4.0	4-5	De Die 4		
1						3 : 1	1		ļ		5,797	4.3	6.3	53,374	3.4	60.7
1	666	125	20	() 1	798	1184	-24	2,807	1.08	-78	30,770	18-23	9°41°	170,513	8.10	52.1
			• •		. ::	, ,							•			
		1			620	24	-32	81 	-01	.01	20,948	8.12	10.45	129,052	4.17	87.7
İ																
1	. √°	1		1 (2)	•) i i		i è	*		•					1
	. 88	0*52	. 0 88	Nu 1	Nil	Nii	NII	Nii	Na	Nil	1,034	6.60	10.00	7,794	4.07	78.3
	Nil	~€ ```` N0 :	NI	Nil	. (124 	0.08	0.08	Nil	Nil	Na	1,476	8.18	14:30	8,698	4.	84'1
ļ		Ċ;		į, į		. :									 	
					18	.01	.08	-			7,531	8.53	18.51	49,098	4*59	80.6
							1 .	•		,	3.33	22.81	18:84	2,022	10.28	1 104-9
1		2.4		1	4		11.					22.01	10 01	_,,	10 5"	1033
ļ	-		-	-	· ·	- .	-	·-·	-	-	490	6 °11	4.73	9,855	6:79	94.0
		• .			8	02	*08	این	i		739	5.20	9-27	5,728	8.38	67.2
	15	-11	18			\V2	Vo.) , (F St		139	0 35	9 21	0,,20		0, 2
ł		• ;	1.4	1.4	,			, ,			•					
		, ,	2.7	1	. :		•				* * * * * *			0.074	10.35	
	_	-		/	_	-	- 1	-	, ,	-	1,233	41.67	46.06	8,733	10.12	! 134·7!
	_	- '	_	ا ش،	_	-	_		ا بيد ا	-	804	48.02	32-50	2,002	9*97	81.1
-	<u></u>				:									3,702,601		
1.		<u> </u>	1 '		<u> </u>	<u> </u>	1.	<u> </u>	<u> </u>	<u> </u>		<u> </u>		He 210		9516
	• •	-	•		÷ · ·	•	, -	$\frac{1}{r}$, $\frac{1}{3}$.		•	•	- ,-	•	73,046		
1		· ·	<u>.</u>		J		•	<u>.</u> 1.			•		-	8,778,£17		ļ

SUMMARY.

66. During the year 1874, 558 additional miles of railway were completed, bringing the whole extent now open in India up to 6,273 miles, of which 5,546 have been made with a single, and 727 with a double line of rails; 5,686 have

been constructed on the 5' 6", and 587 on the metré gauge.

67. The gauge for the Indus Valley and the Northern Punjab Railways, has been changed from the metré to the 5' 6", and the necessary measures have been taken for proceeding with the works accordingly. One of the most important bridges in the whole railway system of India has just been opened, viz., the one over the Ganges at Cawnpore, which connects the Oude and Rohilkund lines with the East Indian, and thus brings these provinces into direct railway communication with the rest of India.

68. It has been decided during the year to add to the lines already sanctioned, one in British Burmah, to connect Rangoon with Prome, a distance of 160 miles, and another in Rajpootana, extending north from Indore, and joining at Ajmere

the railway now being constructed to that place from Delhi.

69. The floods of last season were unusually severe, but serious damage to railway works was confined to the Madras Railway, on which several large bridges were either wholly or partially destroyed, and the traffic was interrupted for several weeks.

70. The railways of Bengal and the Upper Provinces played an important part during the famine. Without their aid, the exertions which were made to supply food to the districts where scarcity prevailed would have been ineffectual. The total quantities delivered by the railways were 306,697 tons of corn, 440,886 tons of rice, and 95,113 tons of pulses, of which 616,993 tons were conveyed from Calcutta, 172,333 from the North-west, and 53,370 from the Central Provinces. The officers both of Government and of the railway companies who were engaged in the work received the special thanks of the Government of India for the zealous and efficient manner in which they performed their duties.

71. In the course of the year 1874 railway material, consisting of permanent way, bridge girders, machinery, and miscellaneous stores, and weighing 156,636 tons, were sent out; also 108,478 tons of fuel. On their arrival in India, these goods had cost including freight about 2,480,000l. Since the railways were commenced no less than 4,893,535 tons of materials have been shipped from this country, the cost of which amounted to 33,140,453l. before they were despatched.

72. Of the 95,119,119*l*. of money which has been raised by the eight existing guaranteed companies, 81,538,000*l*. is held by 62,300 proprietors, of whom 56,797 are on the English register (24,050 possessing stock or shares to the amount of 1,000*l*. and upwards, and 32,747 of less amount), and 864 are on the Indian registers, of whom 448 are Europeans, and 416 natives. The remaining 13,580,687*l*.

has been issued in the shape of debentures or debenture stock.

73. The total number of persons employed on the railways on the 30th September last was 101,595, of whom 96,013 were natives, 3,239 Europeans, and 2,343 East Indians. The employment of natives and Indian-born labourers is becoming more general, and they are by degrees qualifying for work in the engineering and mechanical departments. Schools are provided for the children of Europeans, and the returns from those connected with the East Indian Railway show that the attendance is very fair.

74. The capital expenditure during the year ending 31st March, was about 4,126,667l.; 2,694,124l. being expended on state lines, and 1,432,543 on guaranteed lines. Of this amount, 2,207,119l. was disbursed in England, and 1,919,548l. in India. The total amount which has been expended on the railways is about 101,324,000l., of which 92,786,426l. represents guaranteed, and 8,537,574l. State lines. There was a balance of 2,332,693l. to the credit of the Companies on the 1st April last. Of the whole 95,119,119l. raised by them, 82,627,185l. receives interest at the rate of 5 per cent., and the rest from 4 to 42 per cent, per annum.

75. The sums advanced by Government for guaranteed interest during the year 1874-75 amounted to 4,694,355l., towards which about 3,562,000l. was contributed from the earnings of the railways after deducting the half surplus profits realized by three of them, leaving 1,132,355l. to be made up from the revenues of the country. This is about 305,000l. less than the previous year, an improvement in great measure due to the large traffic in grain during the threatened famine. The East Indian Railway alone earned 510,538l. more than the previous year; the Great Indian Peninsula also showed an increase of 134,145l., the

Bombay, Baroda, and Central India of 48,2481., and the Sinde, Punjab, and Delhi of 113,770%. The Madras on the contrary fell off 86,393%, partly in consequence

of the damage done to the line by the floods.

76. The total number of passengers carried in 1874 was 24,280,459 compared with 23,557,605 of 1873. The lowest class amounted to 23,556,218 or 97 01 per cent. of the whole; the second class to 543,800 or 2.21 per cent.; the first to 180,440 or · 78 per cent. The receipts from passengers were 2,183,0151., of which 1,650,110l. or $75\cdot 58$ per cent. was received from the lowest class, 102,990l. or $4\cdot 70$ per cent. from the second, and 106,1981. or 4.81 per cent. from the first class.

77. The general merchandize carried amounted to 4,663,016 tons, exclusive of 33,608 conveyed by the Indus Flotilla, compared with 4,683,700 of the previous year. The minerals were 687,450 tons compared with 671,004. Of the whole amount of goods, 39 per cent. was conveyed on the main line of the East Indian There was a falling off in the general traffic of the country, but an increase on that line of 711,000 tons, and on the Punjab and Delhi of 130,560 tons, due to the demands for grain before referred to. The receipts from goods increased by 981,603l., from 4,292,005l. in 1873 to 5,273,600l. in 1874.

78. The number of miles travelled by trains in 1874 was 18,475,322 compared with 15,650,597 of the previous year, and the ton mileage was 1,102,956,185

against 802,704,329.

79. Putting aside the cases of accidents arising from the running over of cattle and from minor causes, when no injury was done to passengers or stock, the number of accidents to trains amounted to 263. Of these, 68 were collisions, 103 were from vehicles getting off the lines, and 92 from fire. One passenger was killed and 43 injured from causes over which they had no control. The proportion of killed to the number who travelled was 1 to 24,500,000, or ·04 per million. The proportion injured was 1 to 571,000, or 1.75 per million. In addition to these, 22 were killed and 27 injured from causes arising from their own

imprudence or misconduct.

80. The expenses of maintenance and working amounted to 3,682,601l. (exclusive of 73,646l. for the Indus Flotilla), being at the rate of 3.98s. per train mile compared with 4.46s. of the year 1873. The receipts per train mile came to 3.39s. The ratio of expenditure to gross receipts was on an average 48 per cent. There is a marked difference in the cost of doing the work on the various lines, partly due to their varying circumstances, but chiefly to the character of the management. A very careful and accurate comparison can be made between the six principal undertakings on this point by means of the tables prepared by Mr. A. M. Rendel, the consulting engineer for State railways, at this office, and to the East Indian Railway Company. The chief objects should be to carry the greatest amount of traffic at the lowest possible cost, and efforts in this direction are greatly aided by a careful analytical examination of results. We then have the particulars which serve as a guide for arriving at sound and economical principles of management. One unavoidable cause of expense on most of the lines is the high cost of fuel, and efforts are being made in all directions to increase the supply of native coal. There is good ground for expecting that fresh sources will soon be opened, and that the railways themselves will convey coal to distant parts at a charge which will enable it to compete with that imported from this country and Australia, and also with wood. The importance of the subject is illustrated by the fact that while the East Indian Railway Company obtained coal at an average cost of 24s. per ton at the points of consumption, the cost on the Madras and Bombay lines averaged from 58s. to 70s. per ton.

81. The traffic in future may be expected to be improved by the measures which have been taken by the Government of India and the Local Governments to supply, on a comprehensive scale, proper feeder roads for connecting the railways with the emporia of trade and the agricultural districts in their neighbourhood. When these are executed, and when fuel at a moderate cost is available, all that will be required will be an intelligent and energetic management, an economical system of working, and a scale of rates and fares suitable to the condition of the

people and the requirements of the country.

I have the honour to be, My Lord Marquis, Your lordship's very obedient humble servant, JULAND DANVERS.

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